

SEQUENCE LISTING

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<120> Molecular Toxicology Modeling

<130> 44921-5038-US

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<150> US 60/222,040

<151> 2000-07-31

<150> US 60/222,880

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<150> US 60/290,029

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<150> US 60/290,645

<151> 2001-05-15

<150> US 60/292,336

<151> 2001-05-22

<150> US 60/295,798

<151> 2001-06-06

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<150> US 60/298,884

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<150> US 60/303,459

<151> 2001-07-09

<160> 1740

<170> PatentIn Ver. 2.1

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<211> 158

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<213> Rattus norvegicus

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158

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 $\langle 220 \rangle$

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| cctccaatcg | gcatctccta | gctacatcac | agtgtggtga | aatggtggtt | aaccctcatt | 120 |
| gtcatcttga | ctgcatctgg | actcacatag | gaggcacctc | tgggagtatg | tgggagggta | 180 |
| gtgccagaga | ggcttaacag | gatggcagac | atttctgaat | atgggcagca | gcaaaccatc | 240 |
| agctgtggtc | ctgagctgtg | ccttgtgctg | gagggcaggt | ctgtaggtag | catgatggtc | 300 |
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<210> 3

<211> 371

<212> DNA

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<220>

<221> unsure

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<223> n = a or c or q or t

<400> 3

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| taggatgtca | gagcgggggac | cctctggttt | gttgagggtg | acctatggcg | cantggggaga | 120 |
| ccccagacc | cggaactcta | ttaatccctg | gtcaggccag | gctgaagagg | gatgagctga | 180 |
| cttgacaag | ctggattcag | cccggttctg | tcacttgggt | gcattgaagg | gcagcgcacg | 240 |
| ctgggtttcat | cgggttggtca | ggagagcgca | accactcctt | cttcagcagc | tgcttcagct | 300 |
| ctnagagcgc | catgttgggg | ttttcctgct | tcaaccgtgg | cagcttcanc | tcctcaaattg | 360 |
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<212> DNA

<213> Rattus norvegicus

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<220>

<221> unsure

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| aggctcataa | agtntgtttc | aaggagataa | aaagactcaa | aaaantgcct | cattcaatgc | 120 |
| ctgattatgc | tctgactaga | aattattttg | aacttatggt | ggagcttcct | tggaaacaaa | 180 |
| gtacaactga | ccgcctggac | atccgggcag | cccgcctcct | tctggacaat | gaccactatg | 240 |

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<211> 342

<212> DNA

<213> Rattus norvegicus

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cagagtatgc aacttggcta tcattgaccc aggtgattcc gatattatta gaagcatgcc 180
agaacagact ggtgagaagt aaacaagaaa gttctccttt aataaaaactt tgccagagct 240
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<210> 6

<211> 496

<212> DNA

<213> Rattus norvegicus

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agcaataatg tcctctcgtg ttctccacgg ctgctcgaac caagtggctg gttcatttgg 420
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<211> 328

<212> DNA

<213> Rattus norvegicus

<220>

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tatccgtgag gtctccaaag ttcccctggc aagttacaca ggcacaagat tgttttcttt 180
gagtgcgggg atgcggtgaa caaacatata aagtgagaat tcttgcttca gtgaatatta 240
aataaacaat aatgctacag ctgggaccca tctgagtga ggcgtacgac agaacgcca 300
ctgaaagtgc aaagtctggt catgaatt 328

<210> 8

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799461

<400> 8

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ccgcctctca gtgcctgtca aggacaaaag ttcattggtg tgaactgtcc agcacagccc 540
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<210> 9

<211> 683

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799498

<400> 9

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tcatctgggg caccacctcg ggagatccag gtggcagaat gatgggcaag cactgcaag 600
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<210> 10

<211> 731

<212> DNA

<213> Rattus norvegicus

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<220>

<221> unsure

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atcaacaccc atttttgaa ttttattaag aacctgtact aaatgaagt tttaatcaga 180
aaacattccc ttttacctta aaagtgtctt ttaaataag gcaccaacaa gaactacttt 240
cagatggtag agaatttctt atttcttgaa gactctgtgg ttgaccactt cttcattagt 300
tacctgcagc aagacacctt ccattttact accaacacca ctgaaggaag caagaaaagc 360
tttattaatg atcacttggc ttgcctcagc tgttgaaatg aagcacttta cagtctttgt 420
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 cataggtccc cccagtcggg aacaacaaag ttccacctca tgaccttgt aaaggtgcgc 600
 tcngccgctc ggccaatctg gcccgaggaa atcccaaagg ggccataatc caacaggcaa 660
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<210> 11
 <211> 483
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA799523

<220>
 <221> unsure
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 aatcttaaaa aaggtttcac atgtcacctg aaacttaca atttaacatt atcaaagaag 180
 gaatgcttct acactcttac aaagaccact agaaagaacc aacattttaa aggctagaaa 240
 ctgtctcaaa gcattttttt ttacatcctt cctcaacagt aagtattaat tatcaatcca 300
 tcacaaatgc tctcgcatcg ctctgtgtct ccgcatacaa tgctattagc atactganat 360
 aaagttctaa aatgtaattc gaaactgagc cgctcggtact cgggctcaca ctcccaataa 420
 caattacccc aggaattaga aaatcaatac ggtcttcaaa taccgaattc caatcccaaa 480
 cac 483

<210> 12
 <211> 570
 <212> DNA
 <213> Rattus norvegicus

<220>
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<220>
 <221> unsure
 <222> (1) .. (570)
 <223> n = a or c or g or t

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 cttctcacca actccacggg gcaaagccag gtctaccttt tcccaaactg gcagagaatt 300
 caggaaagat acaacatttt catccagaaa aggaaatctt gcttcctttc catgatcagc 360
 aataactcta tcatcacgac caaggtttct agaagaaatg cgacccaatt ccattgctat 420
 ttctctcattc aatccttcta ggccaagaga ctgaaagcgg gcacgatgac gggaataacc 480
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<210> 13
 <211> 633

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799545

<220>
<221> unsure
<222> (1)..(633)
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acagccatct cagaggctcc cacacaagca can 633

<210> 14
<211> 604
<212> DNA
<213> Rattus norvegicus

<220>
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<210> 15
<211> 541
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799576

<220>
<221> unsure
<222> (1)..(541)
<223> n = a or c or g or t

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<210> 16
<211> 590
<212> DNA
<213> Rattus norvegicus

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<221> unsure
<222> (1)..(590)
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<211> 687
<212> DNA
<213> Rattus norvegicus

<220>
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<220>
<221> unsure
<222> (1)..(687)
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<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799633

<400> 18

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<210> 19

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799645

<400> 19

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<210> 20

<211> 616

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799672

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<210> 21

<211> 588

<212> DNA

<213> *Rattus norvegicus*

<220>

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<400> 21

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 gattcttctg caaacaacaa cacagacagg tagttaggct gcagcggctg caggctggcc 360
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 ttcattgttt gcttgccgac tccttgcttc caagctcttt ctggtgctct gcccgaggag 480
 gggagtggct ggtgccaaagt tttcaccccc tcgccgggat gaggtgtcag tgatctacca 540
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<210> 22

<211> 616

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA799744

<400> 22

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 tcttctcaat aatttataac atgggggaaa aaaagcacia aaaaaaata aatattgaaa 180
 tgaaattgcc aagtggcagg cggtgagga tgccaggcct cggcatgatc ggcatgtgtc 240
 cctgacacct tttgaaatag ttaaagcttg ctttaagaag tcagaggaac aagacagaaa 300
 actcactttt atcttttaaa aaaaacatcc atatattatt aagttgtgac aatgaaattt 360
 cagtgcacgc aagccatggg gcatgctcac acccttccca gccccctcct ggcagggtgtc 420
 ctctgcagggt gctccagtgg tactgacagc cctgtctccc ctggccgcca agagtatggg 480
 gcctccaccc aggaggacca ccagaggcca ggagcgggca gcaagccagt cagtgggtcac 540
 ctgcctaccc tggagaccac tcatccagtt acccggcctg ccagcaccac cacagaaaaga 600
 ctgatggagg ctgttg 616

<210> 23

<211> 567

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA799766

<400> 23

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ttctcacagg acttaagcca ccgctgcaca ttggtgggcg ctgccccact gcttccccca 180
gtctgctgga gcacggacca cagcaccaca tctgccacag tgagctcatt cccaaccaac 240
cacgggcttt tccccaaagc ggagttcata gagcggaaaa cagccgcttt ttccttactg 300
ctcccttctc tcagctgaaa catggcgata tccaccacagc tgtcgatgag ggtaggtgg 360
acagcgttat gcttctgacc aaatagagag aacaggaagc gtgcgatgtt cccttctcct 420
tcaatggggc acatcgtttg taaactgaac ttcatctgtg tcttgggcac gttcttccaa 480
atcagagtga agcccagctg atactcgtgg cgggactgtt ttctagcctg ctccccgaag 540
catttgagaa gattctcagg tacattc 567

<210> 24

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799803

<400> 24

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tggtattctaa cccaatgaat gctggcttca gttttcatct ccaatctctt tcttgatcca 180
gtcaacataa ttcagtaact tgggtgtaaaa gccgtatccc tcaccacacc caatgcccc 240
ggatacgatg cctgtagcca cccagatatc acgactgcgg tccctgactg caaaaacacc 300
cccactgtcc ccctggcagg cgtcatgctt gagagttggg tccccagaac agaacatatt 360
ttgagaaaat acatcattac tgtttttcgt ccggagccac ctctggcatg cctctcgatc 420
ggctatgggc agacggacaa acctgagatt aaaagctatt ttatcttctg ttatcccga 480
gccgctgaca taaccataa ggtctttgtc ataaaaggtc tcattgtctg ggagacagat 540
ggggaggagg ttggga 556

<210> 25

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799804

<400> 25

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tgtagcttg ctgtgatcag aaggatagcg ctttgctgta atttatttaa atgttaccta 180
acagcttccc tcacagtaac ttgactgaaa ttacaacagg aaaagaaacc cagcatttat 240
tcttaggttt agacataacc cacacaaagt tccaactata tggcttctat actttttcgt 300
gaaggtgcgc aaaagaaatt cggatctcac tttagaccaa gaatttcaga tgcaataagg 360
caacctctga agtccaaagt tcaatgaatg cacaacagtt caagcagcag ataccacctc 420
agaggaaata tttagtttgc ttctttgttt cctccagtg ttaatcctgc taatgtctgc 480
taaggtcaac catgactgga acacatgctg ctgatccagt tgttcaagac cagcctgggc 540
aacacggcga gacactgcct cagaacaagg agtgaaaaca ga 582

<210> 26

<211> 500

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799812

<220>

<223> Genbank Accession No. AA800243

<400> 29

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cctgggtacc accaccaaac cccgttcctt cctctgacat cccacagcct gtaacagatg 180
gtagagaatt tgcgtgaaag ctgggtccct ggacctctgt atctgtgatc tgattacatg 240
aaccagcctt tggcgctagc cttgggggat ggctgctctt ctgtgtcacc cagtgtcgg 300
agcacataag cgcccgcata aaccaggaac tgtccggtca cctgggcagc ataggatgag 360
aaccgcagca gactccttaa caaggccttg aagcttggtc agcggaatc atacgacact 420
gagtacatct catacatggt ggctttgaca ttgagacagc cgaggaagtc cttgggattc 480
agcctgtata ggtcgaaggt gactctggct attcctgact tctttgtttg tgtgcagaca 540
tacttattgc cgggtgtcca tttctgtccc tttccaaga tcatgaagtg tgtgtgtct 600
cttaggtct gaa 613
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<210> 30

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800318

<400> 30

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gccagttcct aaggctggaa gtggctaggg caggcagtg cagggaaata gctggatgag 180
ctgaagcttg ggtggcagtg cttactcaag cctgactcct gcctgtctca ggccctgggg 240
tcatatacac ggcccatgaa gactgggaac ttgtgtcgct ggtcccagag caggaagagg 300
aaaggctgct gcacctcaaa gatgagtaag ttccgggcca cggagatggt ggaggctgag 360
gctgcttcca cacctgtctc tgtcagttcc aacacgctct cgtgtttcat ggaagacacc 420
tgaagatctg ggtcctcagt cagcccacac aggttgagat cgtaagtga gtcaaagaat 480
tccagtttct ccatgattga cagcatgtct tggatgctct ttactttaat gcgaggcatc 540
atcacgtaag tgggctgaaa 560
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<210> 31

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800339

<400> 31

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ataccatact atactataca atacatacac ttacaagttg ccacatggaa ttctgtgtaa 60
gcaatgttga ggtctactgt tacaaaatcc aagttaatat ttcccttacc tagatgctca 120
agagagcagt ctagctttgt tattttccac cccctcccta gaccagctc agaagttgct 180
cgggactact agctaccatc tgottaacct tctcaggcaa gagcctaggc agcttctagt 240
tatacgaatt caggctcaga gcctcacagg ttaaaaacaa ggctggagat gccctagggc 300
agaaagttgg gtaacagggt ctatgtcctt gtgcggagcc ctccctgtgg ggattggagg 360
gatgggacac agtgtgcatg aggacgggag aacaaagagc ctgggacaat ttatgttata 420
ctgaactgtc cattcgggtc attcattccg ctaaaccgtt cataaaatta agagtattct 480
gaatggccta tgtctttctt ctctccccag gactcctaga agcctgcact ttccacaaaa 540
gttaaaatcc aagaggtggg 560
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<210> 32

<211> 678

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800429

<400> 32
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tattgaacaa gcttctgctt tatttattgc aaatgttact ggatgacttt ctaggtaaag 180
tggtcagggt tggagctgta tgaaatctgt aatcctagat ctgtcttttag gaaaccaata 240
ctgtttgcaga ctctcctgtg gtatactaag cctcaaaatg acctcttctt aaaaggacct 300
accaaaagttg tacttggtggtc tggagagaag gttcagtagt tactaactag cacctgttct 360
atagacccca tattccattc ccaccaccca tatggttcaa agccaacagg aattcaaagt 420
tcatagtacc ttacaccccc tgctggcctc tcttggcact acagagacac atgcaaatga 480
agccttgata ctcatcaaat aaaattaagg attaaagaca aatttttggtt tcatgaaagt 540
aattctactt ccattcaaca ttttacaaag aataatggga ttactcatt ttcataatta 600
gcctttggag gcagatataa gaatttaatt tatgttttga tagtacagaa taaagactct 660
aaatatgttc tcacacaa 678

<210> 33
<211> 572
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800551

<400> 33
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aaccagatgtt aagcatgtaa gcatgtgact tcaaaacata caacaaatct attcataatt 120
tgctatacta ccaacattaa attgcagtta cggtggagcc taagttgaat agaaagcctg 180
taacagaccc aaggaacgcc tttcctggac tatacatgca aatcacctct caacatacag 240
atctcacttt aatttgtaag ttacttgggc tttggaagtc actacaccca agcaagggcc 300
tttggaagag ggaataaggt gatgttttca gtttatatat atatatttat atttaaaagt 360
gcacagcaga agggaaatgca atctagaaga gcaagccctt aagcagtagc ttatgataaa 420
cttttaggaat gtatcatttc tatcactaat atcacaggcg aaatgtatta tgccaccttc 480
tagtaatggc tgaggcaata caatgcaaag gcatcacaat tagttcactt caacaactag 540
acagaccaac atgtaactaa ttgttttctt tt 572

<210> 34
<211> 551
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800576

<400> 34
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gctcacatcc atgccggtta acttaaagct agagggtataa agtgacatct acagtgtatt 120
tgcaaggcca gagctacagt ggcaagctgc atgtggctgc gcgcaaagc tcagtgggtgc 180
tcagcgaggc tcccgggcgc tcgctgctct aagcatgcac ttggaaacct agctcatcag 240
tcccttttaa acagagacgg gatgatgtag accaccacc aagactcgcg gaaggggcta 300
cttaccacaa cctgcattaa tttataaagt gagatcctaa gtcaaacatt cacagaaagg 360
catattcact aggagctggc caggcagact gtctttctta gtgacctgtc tgctggctgt 420
tattatagtt agcattttaa aaaagggggg gactgaattt taaaatagag cacttggcgg 480
ggagagttaa tgtgtgcatg tgcggaagcc gctccctgca ctctgctgta ttcaacagtc 540

aacactgcac a

551

<210> 35

<211> 610

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800739

<400> 35

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ttgtagtatg aaagggccat cataaataca aaactgttat ctccggttcc tactcacagt 180
tgacttaaca attctccgtc ccgatgaaag gaaaacagtg tatgaagaat cccaagtag 240
attccaaccg aagccacctg gtatttttgg agctgggtgct caatgcctca gcttatgcag 300
cacactcagg gtatggcaga ggcagttaag aaaatgagtc aaatttagca tctcagtact 360
acagtgcgct ttgcagacct tcggactatt tttcctagcc aaagtacagg ggaattcaga 420
caagagccac cgctgcagac cactatccca ttagtgcaaa ctctgggttca gatactgaag 480
aaacatgttg gcccaattgag gcaggttctc attgttggga tgcatttttag tgtaggaaat 540
aaactggcga cggaggcgac tcaattctgc caaggtcaag ggacgggtaa atcggaggtg 600
ctccgtgggtg                                     610
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<210> 36

<211> 359

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800797

<400> 36

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aatcatgttg caagcagaac catcgacat gctgaaactg gccacgagg ttgtgtggag 240
gctcctcctt aatacgaatc gtggaaatga gcccggtggc ttcggaaga acgctgccag 300
taacgaaggg tccaggaagg ctccggtctc aggagctctg ccatgctgac cctcgtgcc 359
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<210> 37

<211> 495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800962

<400> 37

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ttggctggaa gctgctggca ggttggagca gctggagccc tggcagggtg aaactgaggt 180
atggcagcgt taataatact cttggagcgt taatactctg gaggggacag gcacttgggg 240
ccctaagggtg cgaaggcact tggagtcagg gagaggacac ggcttgcaat gggactgggc 300
aggaccaggg ccgggggtttg gcaggcactt tggggagtgc tgggggttggc agcttggggc 360
ctgagcagcc cagaaggctt tggtagtggc aggcacagtc tctgggctgg gtctgcatta 420
aatacagggg tttcctcagt gctcgtctcg aagctctgaa ggcaagaact tgtactgctg 480
ctgccggatc tgggc                                     495
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<210> 38
 <211> 560
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA801076

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 aactaacaac tgtcctacta ggtgagagag aaagattatg tgagaaaatc agaataccat 180
 gtgatttgta gatttgggac gttcagaaac attgggaact aaatttagaa tgggccaag 240
 cctggaagat ggggtctcaca ccagaagaca ttccaggagc tagccatttt aggagatgtc 300
 cctccaaagt gtgcgatga tggccttgca cttgggaatc aggttctgct cacttggaca 360
 tccctgcgtc atggactctt gctgcccccg ttccatgtgc tcgcaattcc agctactgga 420
 agccaccagg aatgctttct aattatcatt tgcaactaga actgtaatca gaaagaaaat 480
 ttgtattttt gtataactcg attgtgtgcc attttatata acaggctctg ttttacaaat 540
 aaattttgtt ttactaactt 560

<210> 39
 <211> 437
 <212> DNA
 <213> Rattus norvegicus

<220>
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<400> 39
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 tagtggaata tgttcttttg tctcaaaactt ggatattgct acctgaagta ataaacaccc 180
 caagccagaa acttggtcag tgctggcaac attttttgag tgtttgtgat ccaggaatcc 240
 tagagtgacc gcctgccatt aagatttttc caaggacaga gtcaccccaa actcttgttt 300
 aattaccaga taaccagatt ctttatcaga attatggaat aaaatatgta ctgtaacaaa 360
 taatttttag aagaaaactg tttaagataa tgctcttaac attttttttt gcaaacattg 420
 aagattacat tgaagaa 437

<210> 40
 <211> 485
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA801346

<400> 40
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 ctgggttttg cctgtagcta ccacagccag ttcttggaact gtacgtgtct gccagacgga 180
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 aggcactcca ggtggactcg agggccatcg ctggctccac ctctaaggct aaactggacg 300
 tcagacgtcg gggcctgggt gccagaggga cccagaaaac tgaggtcccc gtctcagctg 360
 ttaaacaggc tgtcctggag gccctgcctg gatctggggg tgctggagca gcatttcccc 420
 cagggccacc cacccttttt tgtaaactctt gattgtaaat ccaatacagt tgtctttttc 480
 actca 485

<210> 41

<211> 416
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA817685

<400> 41
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gtggaagtga ttaacactgg cttcttttct cccctctctg gggcagtctt ttcttctctt 180
ggcttcggac agacaggtta atcttctgcc atgtagaggc gatacatcag agctaccacc 240
agggctgaga tggctgggat caccagttg gtccaccaac tagaaagaca catgagcaaa 300
gagatgtttg agtgaacctc agtgcagaga ccgcaccccc tctgatggaa aactaccaca 360
gcatattttc cttacctcta gaacctcttt ggctaaaagg atggctcagt ttgga 416

<210> 42
<211> 454
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA817688

<220>
<221> unsure
<222> (1) .. (454)
<223> n = a or c or g or t

<400> 42
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gtgggggaaa aaaaatcccg cagagtcaag aaaagtagac actttctctt ctttcttgt 120
ccagggtaac agtggttaac agtgtaaata gataaaaatc caagttgggt ttttgagaaa 180
cgttgctctgc agactgccaa tcttgacgtt tctagagcca aggactcaga attccttctt 240
ctagatgacc gtaccacgt ggctctgcgc atccaagaca actcgtactt ctttctgcga 300
gtaaccactc cgtggtcgtg ggagagcgga ctgaaatcca cttcccagcg ctggaaagtc 360
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cactgcggag gcgctgggtt aggtgcggag cgtc 454

<210> 43
<211> 429
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA817695

<400> 43
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actgagttta caggaatgct tataaatctt attcaaatac agaaaatatt tcagcatcag 180
gataaatgac tatgcatatt caggtgattt attaatctag tacaacttcc attcttccac 240
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cactgaaaaa tcttcaactg gattatgccg atctttacat tatgcattac ccagtgccaa 360
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tctttatga 429

<210> 44

<211> 522
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817726

<400> 44
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 ccttgactac atacacatat atgtatctat tcttaagaac agcaatcaag aggttaacaa 180
 taatggaagg aagaagtaga caggtaagtc actgccaaat aacacaagtt cataatgac 240
 ggttactcaa gtaacctggc aaatgcctgc tcagaattta catttacttt cctcattgac 300
 tttcttgccct ttgtgtttca gtgaatttgg actagggtcca aaaactagac cttcaaaact 360
 ccatctctca cattcagtgc tgaagatggg catggaagggt gagtatactt gagaacatgc 420
 atggtaacga atgtcaaaga gttttctcac agtgaccttt cccctgtctg cttcttccca 480
 cacctttaga aatattttca tgcttctct ggagacatta ga 522

<210> 45
 <211> 557
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817761

<400> 45
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 ttacaacaga gattctccag cttccagccc agctctgtcc cctgacctgc tgtgggttcc 180
 ttgcacactc acgcctttca taaagaagga ggtacacaca gtagaacggg aggggtcggg 240
 agaatgagca catggggtat tctgtgtgca tgggggacag aaagggtctgt ctgctccact 300
 gagtgtcagc cactgcgatt ccaaacagaa aagaatgcaa gttgtcaaca agacacactg 360
 tcctcaggag gagagatgat ctaagtcaat cgaaaaagaa cgatgggtta gtacccaca 420
 gttccccagc tgagggtgca aagccataga taggattgta aacatgcggt tggaacagggt 480
 tccatagaaa actcagtttc tcacggaaag cttgcacagg tgctttattg gctgtgtgtc 540
 tctgaagagc aaggtta 557

<210> 46
 <211> 605
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817829

<400> 46
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 aaccgtacaa agaacataat catggaagca cggttacagg ggaagcagaa gagtctgagt 180
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 aatctcggta aagggtctacg gcttatggag tggagcagag ttcagggtgtg cttgcgggct 420
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 gcactaactc catgggagct gcaatagaat gaaccatttc tgtggcggtc ccagggtctca 540
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<210> 47
 <211> 612
 <212> DNA
 <213> Rattus norvegicus

<220>
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<220>
 <221> unsure
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 <223> n = a or c or g or t

<400> 47
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 atcaattcca acagcttttac aaaatgtcat tcatctaagg cattttctgtg gttctcacgg 240
 ccacatgttc acatacataa aggcctctat tcatggacag agagatacgt tcttttaggag 300
 cagtgggtgc aggaggcgaa agcagttaca cgcttagtta ctgagtaatt ttaaagagga 360
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 cacttggatt attttgtgat gcagactaca agaaaatcca tgctggatta tttgctttcc 480
 aaaggccact ttcaaagtac agatttcgag tccagaacaa ataccacag cgagaacaaa 540
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 <212> DNA
 <213> Rattus norvegicus

<220>
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 tctacttaaa gatagcacag gagcagatcc gctctgcttg tcttgctggg ttataggggtg 180
 caactcatcc tcctgggttc tggctgctgg gtacagggct gagagtgggg ttaggtttgg 240
 aaaaaacatg gctgtgggta gcacgagttg gcttttgttg tgtttctttg cataggtgtt 300
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 ttgcctgcca ctggcctggg gcatcttget tatctttgag gaagtcctag gaaatagttt 420
 ctgtaatgca tcctgatttg aaatcagtga aagtgttttg gcagtgggaa aataacaatc 480
 ccacttcaga gatctcacia acggaaaatt tgcctcgcaa aaactccttt aaacgctaac 540
 tgagacaaat gattccgtgg gcaaggagac tgtcagccag agctctgtaa aatgcattct 600
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<210> 49
 <211> 493
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817921

<400> 49
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ccatctatac cagtgtcaaa tgagggaggg aggggaaggc agggcagagc agggagacga 120
 ggggaggagg gaggagtccc ctctactggt aataaagctc cagggttcac cgcgcgtgga 180
 tctcatagtc tcccagagac acgtgggtctt taaaaatcgt gtaccacttt ttaagaacga 240
 tcttattcca gcggggtgcca gtttgagccg ctatcagttt cttcagggtcg ccgatgggtgt 300
 catcggtggt gcaacttaacg cggacttttct ttcctagacg gtcggttgcaa accacctcaa 360
 tcattgtggc tggagccggc tttgcctccc gcaaccctta ggctcccaag tcttggcagc 420
 ttcccgcgat ctccggcctc tccgttttagc cttctcacct ccaatgtcct cgaacctagc 480
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<210> 50

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA817925

<400> 50

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 ggcacggcag tcctcagaac gggcactgag acagcacctc atgcgtgtca ggtctttaat 180
 tttttccctg ccagagcttt ttctttcttt gcttcgttgt tactgtgttt tttctgttta 240
 acaattcaat tggcagaaaa atggctatcg ctggtggaca ttaggggtgc agtgaaaaaa 300
 aaatccccct cccccaattc ttgcttgcca ccgtgggaga cgagggtgagg gttcctagag 360
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<210> 51

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818039

<400> 51

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 agtcccgagt tattaaacaa accttgctct tgtacaactg aggtctgatg gttttaagtt 180
 gatgcctggg tgcagggcca gacacaacct tagggatggt tcttacctgt acatacatat 240
 atacaaatat attccacaaa tgtgtgtata catgggcatg tattaattta cgtggggaat 300
 ttataaaatt atatatacat acacatacat gcatatctat atacagctcc ccacctcac 360
 cagtgaactg ctgaagtagc tcgttagctc cgtgctcgat tattgctgtc tggataaact 420
 acatgattta gtgcaaagc cagacacatt ctctgggtgt ggatgggtcac tgtcatatag 480
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<210> 52

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818089

<400> 52

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tccactgtct ccttcttggc agtctcttgc ccttcaaaga gggggtacct ggcctccaca 240
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 tctgccctta tctgtctcat ggagtctcgg tccctcagag ttgcagtgtg gggggtcttg 360
 ttcactgtat caaagtcaat ggtgatgcc aacgccacgc caatctcatc agttcttgca 420
 tatcgcttc caatagaccc agaggaatcg tcaactttat gagacacgcc atttcgagtc 480
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<210> 53

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818105

<400> 53

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 acaagatgga tcacgacaac taaggagtg acttcttttg tgcccgaggc ctttttacag 180
 ctgacccatg gctccaagta atacggactg aggaagttca gcaagtggca gcatcaatga 240
 gtggacctgg agcttattca gcataaatat tcaaggatgt ctgactcaa gggtagagag 300
 ggtagcact gtaacaccag gagcagagtt cctacggtac atctcctcct cctaactacta 360
 agaaggcagg tccctcatac cttggtcttt caagacatag cagcaccaca cccactgcc 420
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<210> 54

<211> 535

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818107

<400> 54

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 ggtgttcttt gtagggtaga agccctacaa aggggtttgtc agagctgggc tgggacatag 180
 cagatactgg gctggagttg agctgagtg tgttggttaa tgaagggtgaa tatgagatat 240
 ggtgaatgca aagtgagaac caggaagtgt ggagttagcc caggctagta gcctaacc aa 300
 tcttagcagt cgactgactg agagagaagg actggtgtga ctgattttta aacaaagcaa 360
 aaggagctgg gaatgacggg aggccttgta caccagacct ataatcccag atacctggaa 420
 gctgagacaa gagagtcgca agttcaaggc cagcttgga acgtgtcgag actctctctc 480
 aaggtaaaaa taaaagagga ttgcaattta cttcagagtt tgactggcac cctgg 535

<210> 55

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818123

<400> 55

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 ggactccagt cagaccagaa ggctgccaat caaacttggt attggcagag acagcagcct 180
 ctttgatctt cagaggtttg taaaagcttt ccaccctaatt ttctgagtat cataaaaagt 240

aaaaagcact tttattctgt ccttttcccc ttttaattttt ctttttttaa ccagcaaaaag 300
 gactacttat ttttatgact tcattttttat gagcacaaca gttctgtcaa ttacttagag 360
 aaggaagccc tcagagatgt gtcagtgggtg ctgaggtcca ccgaggccca caccaacagg 420
 tgtggcattc catgctatca cttctacaaa gaaccatgaa gaatgcttgt agaccctatg 480
 tacagcatat agtccacaca tgcttgatgt gcgtccatac cacgatccag taacagcaaa 540
 gagaatcccc tcttgaaata aaaaaaa 567

<210> 56
 <211> 518
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AA818139

<400> 56
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 taacaacat ttaaactatct tttaggcact tggtagggat gaaggctggg ttcctgtcta tcctttaccc 180
 tactgactgc tataagcaag tggtagggat gaaggctggg ttcctgtcta tcctttaccc 240
 acgggcatca ctaacactga gaaacaacac caggacattg caccacatt gcaagacatt 300
 ccagtgtatt ttaaaggagc cgggtggttag tggtagggat ctttaattccc agtacttggg 360
 aggaagaggc aagcggatct ctgagagttc aaggccagac tgggtctacag agtgagttcc 420
 agaatagcca aaggctcaca gagaaacccg gtgtcaaaac cccaaaaaat ttggagaaat 480
 tttatcagcg agtcaagact gacattggtt tcgtcaca 518

<210> 57
 <211> 363
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AA818158

<400> 57
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 catgaagtag agaataagca ctaaacacta aaaaaaaaaat aaaataaaaat aaaactttta 180
 ccttacttat taaactagga agaattttcc tgaaacgcac ctgttaaatt agtctataat 240
 atattaatga atggaggaca tgtatttcct agtaaattt ttaaactatga agtatacgtc 300
 tgggggaaaa aaaactttctc aggatatgaa atttttcaag tctcaatccc ctgaacagac 360
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<210> 58
 <211> 357
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AA818163

<400> 58
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 agtgagtggg aaacctaaat ggtcacagcc tacacatcac agcgtataca gaatgttggg 180
 catattaaat gtagcagaac acttgggttt ctggttgccct tgctactaac ctgactcttg 240
 attttgtgta tgtaagtttc tatactcact tactttttctc cataagagaa gccatacata 300
 ctgtcactgg taattgtaaa gaattacagt tccccttatc aaacaattac aatttta 357

<210> 59
 <211> 572
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818211

<400> 59
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 atctaccag ctggggtcct cggtagtcct aatgtggtgc tgaagttcca gaggattcct 180
 gggagagtcg ctgggtcttca gttaggttg gaaggctgaa gacactgggt gctcatgaca 240
 gcaaagggca gcagcagtga cagcggcagg gacaacgtaa gtgagcagag aagatgagct 300
 caccaacaag acacgaaagc aaacaggcag caaacaaaaa caacaacaga agactagtgt 360
 tttcccttca gggatccttg tttgtggcg gtgctggaag tgcttccac ctcagctaca 420
 tccacaggtc aggcagctca aagtctctaa gtgcagaccc tggatcctga cgcctctggc 480
 ctctgtgagg acctgcactc acacacacac gtagtctctg agtccccgtg tctcaggatg 540
 ttctccatc agagcagaaa cctacacctc tc 572

<210> 60
 <211> 464
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818258

<400> 60
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 cagacatcgg aatagactat ggaacttgag cctagtgaga tcagaagtca aaatctaaag 180
 ccaggatgta tgatcagacc atatgttctt agccttgcca aacaacatgc tgctcttaaa 240
 atgaaacaaa tggatgtcac tgtgaagtaa ctgagatctg tctaggtttt ggtgtttatt 300
 cagaacactt tctttgacta cattaggaaa taagtgtttt tgctgagcca actctaattt 360
 ctagttagc tttttaaaaa aggatattatt taagataccc cttaatatga aagttaaatt 420
 ctacactata gaaattcccc taaaaggctt aaaatacctt gata 464

<210> 61
 <211> 494
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818264

<400> 61
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 gggcttctcg aaggtctcgc agcactcgga gcagctgggc cagtgagtc tcaggagctc 420
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<210> 62
 <211> 429
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818271

<400> 62
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 aataaaatct ggtccaggac aagaggaggg ccactccact ccactggctc tcattggatg 360
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 tctccctta 429

<210> 63
 <211> 548
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818287

<400> 63
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 aatggaca 548

<210> 64
 <211> 554
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818288

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 gaaaaatgaa aaacacattt taaaagggtgc ttcatttttc attccattag taaagccttg 180
 acaggctctt gaaacgtcag tcaagtccag gaagaactag aaatgcctga gacatttcca 240
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 ccagcaagcc cattgtgcag acggagagac tgaggtcaga actccttagt ctcctcatgg 360
 gagactggag catgtcagtg aagttattgc tttaaagttt tagcaagggt tcgcaagcat 420
 tcctctgctc tccactgtgt ttctctgggc catggagaag tgaggacggt actgggggtct 480
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 cctcccaact cact 554

<210> 65
 <211> 551
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818355

<400> 65
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 attttaagat catccgaaat taaagacaca ttgtaagcca gtccttggtg ctccctggcc 180
 gtagcaaata gcaaactatc aaaaacaaat acagttttaa aatgtttaag gtaacaattg 240
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 agaaaggagg gattgggaca tcatgcatgt taaatgtttt aaggaagtgt gcatctactg 360
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<210> 66
 <211> 340
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818412

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 gggcaatgcc ttgcgcaaga caaatgcgct ttctgttgga gaagggcatg aaagcttcac 180
 tctttttcag tgccccattg gcatccagga agtggttcagg attgaagctg tctgggtggg 240
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<210> 67
 <211> 564
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818421

<400> 67
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 ttaagactgg ttgagaaata gaacaaaaac atagtataat gtttaaaaaa ttaaagaaca 180
 ttttccaagt ataaatttta taaatacaaa acaaatccac aaatgacttt gaatgctaaa 240
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 ggactcactc atgtgtagt ttgaaaccct atgacatgga gctcagacac actctctatg 360
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<210> 68
 <211> 519

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818474

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aatggtttca attaccagca ttgaaacaaa attagtgcga aaaaagccaa atacaattgt 180
gcaggcaatg gttttgggat cttagagggt agcttgtttt tgaccagtgg gacaaatgag 240
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<210> 69
<211> 450
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818490

<400> 69
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ggtaaggggt gtcgtgggtg tccctgagaa gctcagtcga gagggccttt gtctaagaga 180
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attaaagggg gggcttgagg gacaaggggc ctgtgctgtc cttcaaagc ctgggagcag 300
accacgggtg ggaaagaggg tggcggggaag agcttgatac actatcttaa gaaacaccgt 360
ttacccactt cctctttaac cactgcagtg cacaacgagc cagggcacag ggcaggagcc 420
cacatgcccc agtggtcttc aacatggcac 450

<210> 70
<211> 507
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818521

<400> 70
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tacaaaacag taaagaaaac cttttcttca caaaagatac acatatgata catttgttcc 180
ttacactgac atatgaactc attcctagct tacttaaaac aaaacccttc tggactctgt 240
atgccaatat ctagaggcat gtacctggtc cttttatttt atccagaaag caaagctatg 300
cagagaaaaa tctcagtttt cttttatata aaatggcctg catatggcct gctacttatt 360
attaagtgac attttaaagt tctcaagaag ttggaaactc tttagaccag ttgtcctgaa 420
atgactggac aatgcctgtg ggatgtgtgc aaaatgcagc ttcttatgaa ctggctcact 480
gggggtgggag tgggggtatg tgggggt 507

<210> 71
<211> 557
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818524

<400> 71
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gtacccaggt ttaagctatg aacattgaca gtgtccattc aaataaccac acttttagtt 120
attaaggatg taaccagttt ctaacatgag cctattttct acactgctta tgcacatatg 180
cccattaaca aatggaatgt tgtcggttac atttattggt ttgtgagtggt tttctggaaa 240
aactgcagtt atttgtgaag accaaagttc catgctagca ttgcatgcat ccaaataatta 300
atgcacagag gcacagtaga gcaacaagag agcatattga aatactagca caccctattc 360
ccctttttat tgcttgttta gcttaaaactt taaaaaccaa gtaaaaatct gaattcagcg 420
gtcaactgcc aaagaaaagta acagcagggc acatacttag gacttgaatg aaattgttaa 480
gcactagctg gcgcaacagc agacattttt tttttcaggt atatgaccac cttagtatct 540
aaagctcctc aaacagg 557

<210> 72
<211> 492
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818593

<400> 72
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aggcatgtaa catacacatt tgtacatagc atcttttcaat aaaaaaatgt acaggtgggg 120
cagtgtttta gtgaaaggct taaattttt ttaattgaac tactagttca attaaaaact 180
caaaaaactc attgtgttaa agtaactata tacatagata aagtgggcat ccaagaggta 240
tagcagcagc cttttaatgt atacaccagg gagtgatatg catcttcctg ccctctgcct 300
ccagcagttc ctttcgaagc tggcctgttc ctctgcacc ttcagggtc atgattcctt 360
gcgtagctct gtctgttggt ggtttcgtgt agagtcgtat gtgagtcctc ttttctttct 420
ttgttagact ctgtgggtct gaagaaatca gttacatata aaaccactaa tattgccaca 480
acagctcctt ga 492

<210> 73
<211> 515
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818604

<220>
<221> unsure
<222> (1)..(515)
<223> n = a or c or g or t

<400> 73
cgcccgccgt gggctcgttg atgatccgca gcacgttcag acccgcgatc acgcccgcgt 60
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tcaccgggtg gccaggtac gctcggcga tctccttcat cttggtcagc accatggagc 180
agatctcctc cgggtagaac gaccggttct cgcccttgta gttcacctgc accttgggct 240
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cgccgaactt gcggccgatc agccgcttcg cgtcgaacac ggtgttctgc ggggttcagcg 360
ccacctggtt cttggcggcg tccccgatga gccgctcggg gtctgtgaag gccacgtanc 420
tgggggctcg gcggttgccc tggctcgttg cgatgatctc caccttgccg tgctggaaca 480
cgcccacgca cgagtaggtg gtgcccgaag cgatg 515

<210> 74
 <211> 470
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818615

<400> 74
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 taccgccaaag ccctggagac accgatacaa tttgatggta aacaaacaga actgcggcag 120
 ttagagagaa cacagacca cttcccaggc aggcaactgt ttcccaatcc ccctcatgct 180
 acttctgtgc ttctgttcag aaaggtgata ctgtgtccca gccctagcaa ggctgaggca 240
 ggaggaccac cagtgtggga ccagtatggg ataggatata taaggaaacc ttggttcttg 300
 ttgtttttta agggaaagaa aaaggttaag ttgaaaccga attgtgcaga accgatcaca 360
 actcatacta aggatggaga tagtctttta ccaaaaacca acccggtcac cagcactaag 420
 atttgtttct ctggatttga agaaggaatt gagaaaatga tctgcaccaa 470

<210> 75
 <211> 530
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818627

<400> 75
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 gttggtaact gatttacaga agcaatcaca gactgcaaaa acatgtgtgt cacacacaca 120
 cacacacaca cacacacaca cacacacaca ccccaatcaa ggaaaaactg tgcctctgaa 180
 attttccagt ccaaagttct gttggtgctc ctctgcacc cacggtgctt tcccatggct 240
 tccacacaac agctgagact tctgacctct tcattcttga tgagattttt cagcaataac 300
 ttacattca tacattgcta gctgacgacc aatgtttccc atcgttatgc ctccagcaaa 360
 aaatatacat ggcaaccaag agcggacata gagaaaatct ggagatgtgt attgataaac 420
 accattgtag actaacagtt gggtgacaac gggtgctaag aaagcaattc caacaccaag 480
 gccaaaacca cttctagatc tgtcaaaagt ccaccatagt cttactgaca 530

<210> 76
 <211> 584
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818700

<400> 76
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 attcactacta aaatacgtgc atgagcaaaa ataaaaaata agcacaggag tacgaaaatt 120
 aacatagtaa aatttttaata cagtattctg gatataagta gaatagcact aagtaaagga 180
 ctgtagttac ctccagcagc tgggagtagt gggtgagatc aaccaagggt tagaatagcc 240
 ccttcacatt tcatcagtg tgcacaaagc caaagcaagc taggatggag actacaacta 300
 accttccatg ttaaccagtt attttaaggt gacttaccct cacttaattg cagttgaggt 360
 aagttaaaca gagagccctt acaaagacta agaaccaaat gaaaacttgt ttctagcctt 420
 tgtttttaggt caccttaaac taaaatgctt ttacgtactt cttaacattc atgtacacat 480
 tctttcaggc caaagtttca gcttggaat cttgccaaact gtatgtccaa cttctgaaca 540
 tttgcaatca gacaaattta ctgtataaaa cagtaagatt tact 584

<210> 77
 <211> 557
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818702

<400> 77
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 tccttcccag gggcccagg atagaagcaa gggttgttgt ggtcctagga ggaaggggtg 120
 cccacctcta ccttgaagc tgccgccatg atctcatgct ctgggctgct aggataaggg 180
 ctacacgtca tcctcagaca caaggcagta gaagtctgtt cgcgcactgt agtttcgaga 240
 gccaaagtca gagacatcca ttctactggc atggccctct cctatggaga ccttgctttc 300
 gtgtagtga gttgggtggc ccccaaagac aggtccacgg acacccaggc ctccctcagg 360
 gtctggatcc agctctgact ccatggcccg gccctgggca gcacgtcttc tcacgattag 420
 catgggatct ttgtcatcct gaagtcgggt ttgggggtct ccctccacgg gtctgtattg 480
 caccttccgt ggtagtcca actgtagctc tttccaaaaa tcagaggaag gtgtcacgga 540
 gccaggcttc caaagca 557

<210> 78
 <211> 537
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818721

<400> 78
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 tgtagtcctt ggatgttact ttctgtgggt ggcaccactg ccttcaagga agggaggcct 180
 ggaagaggct cgcagtctcg gtacccctca gagcggggag cctacttccg ctttctgtac 240
 ctgctcactc ttgtgggtac catcacagta agggggccgc cgagtggcct tgcaggatca 300
 gagggccact gtgcgtgtct cttcggcctt gaacttgagt ggggaaaggc cagtgcgctg 360
 gaagaagtgg gagccatcgc agaagggtcg attcttactt cggccacata cacaccacct 420
 gtaggttttc ccggcaacca gctccaacct gatgggtgtt ttctgtgcca ccactggctt 480
 ggctggatct ttggggaacc atcggggcaa ccaagaggag atttccccct cgtgccg 537

<210> 79
 <211> 596
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818741

<400> 79
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 aagaggctta cagtgtgttt cattaaacaa agcaaagctg cgacaaaaca ggatcacatc 180
 aatagtagta tgcacagaa gagtgtagta atccatcaaa cacaattggg catctgtgcc 240
 tttcctcaaa aagaacaaga gctctacact gaagaatatg tagtgcacaa gaagcattgt 300
 ttgtaggctg tgaaggaaca taaactggca taatgtcact tattaattca agtctcgatg 360
 acctatgacc tctctgtgaa tacaaagggg tccaatgtct taggcacctg ctcatgggac 420
 tgtatgttta tttccagggt gcacagctcc atacaaagac actaaagatg ggtttggaa 480
 atggcagcat ttacatattt gaaaaagttc aggcacattc ggatacaaaa gaaagggggg 540
 gaaatgcaaa tagaaatttc tcttaagtct ctgaaacaca gtgcaaaatt gagaca 596

<210> 80
 <211> 544
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818747

<400> 80
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 ctgtcatata ttaaaaacga gaataagaaa gcacacactg cgtataggaa gctgccttct 180
 cctggaccat tttcacatta tctgggagac agaactgaaa caaaatacag tattcaccac 240
 atgcaacact gaaaccatcg ctgcgtagac actgcaagct ctgcggagga atgacttctg 300
 tgaggaagcc cctggtgacg ccgccgagat aatcacccat gagaagataa acagaactcg 360
 atggagaggc cttaaaggcct catgccaaagt cccacagagg aatgcagcct tttgctctcc 420
 aaaccctccc tcaaagccga ccaagcaatg aatcagaggg gtctgccacc tcggctgcac 480
 ttccttccca ctgtccccga atagcaagca gcacagtgt aacacaaggt acaaatctgg 540
 gttt 544

<210> 81
 <211> 488
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818770

<400> 81
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 cagagaggag actgtggggc tggccctctt tgggctggag tctctggctc ccctgggcag 120
 tcggttccca gcctcccagg cttgtcatcc tctgaaggct gagtggggtg tctgccctgc 180
 accacagctc ttctccaaaag ccgaggaaaa cccatgggga atacagggtg agaggacctg 240
 aggatcatgg gatgggagcc cacattgaac ctgggtgagg tagtctgtcg cctgaggccc 300
 acacgggtcc tgctgaggta aaatttgtaa gtttatttca gggacgtggg tcaggactcc 360
 tcggtgccag agtcatcctc ttcaccccca aagcagctgt cggcctcctc cacttcaccg 420
 tcctcatagt agtcgtcgta gaagaggtct gagccctcgt cgggcgcgag cgcttggccc 480
 tcgtgccg 488

<210> 82
 <211> 561
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818774

<400> 82
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 tatcaagcag aggcttgccc acctgactct tgtggaaccc ggaggagttt tagtttattg 120
 tacatgcatt aaaaagtctt tcagctgctg cagaggaaac gtcagaagcg aggcctgagg 180
 ccggagctcc gagtctgcac gggacacagg cgtacacagg tagctcacag tatgcacagg 240
 ttaatatgag acacagtgac accggtggct tggcttggct ggcagctgcc agtacgatga 300
 caatgtggct cttctgaaat ggaggcagcc ctgtcctgcg ccatcagccg ggccttgctt 360
 ggctgtacaa ggcttcgggtg tgtagtgtgc tctgggttgg tcggagggtg gaagcaccaa 420
 agacccttaa cctgggtccct cggcaggcgg gacaggggtc attatttttc tcctggccag 480
 aatggctgt tcttcagaat agataaagtt ccttagcctt agttatcatg cctttccctt 540

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561

<210> 83

<211> 606

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA818781

<400> 83

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aagcagtgat acaccaaata caggcattat aaggattttt tttttaagta agtatctgtt 180
tagaatacaa tgttacaaaa gcaagaattg gattttaata aaacaattta ataaaacaag 240
gcacaatgtt taaggcaaaa tttatgaaga aagtatataa agttaatata agatcatatt 300
ttttaatatc ctttggggaa agaggcacia gaattagaaa tagcttaaac attttttttag 360
aatattagcc ataagaaagt aaaataaatt tgatacaata ggactctatt tttccagaa 420
aacaaactcc actgttgaat catatttctg agttccattt taatcatata tatattttata 480
cagatatttc taatacacag actttaagta cagaaaatta agatgtcaga gcatatgtaa 540
tgatttgacc aatataaaaag gttaacattt tttcagcatc ttttgttgtt ttcgaaaccc 600
ccgact 606
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<210> 84

<211> 563

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA818796

<400> 84

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tgtacttgac tttagtgggtg agattcttag ctgtggcatg gatacacatg atcagaacag 180
tattaaataa ggagaacgtc attgaaaaga gcaatctgtg tgcacaaag aacattatca 240
agaaagcaaa gaagcaatgt gtataaaacg tccctaatag gtaaactctac atagataaaag 300
agaagattgg tggtagaca accagagggga ggaagaatgg agagtcactg agtaatgggtt 360
acagtgtgtt tgaaagggga taaagataag atcgtggcct gattttaccc ataaattgtt 420
gattctttac acaagaataa tggttagagg aatgagccac aatagcagat attatccaac 480
cattaatgaa acttatgacc acttcttaaa tttttattta ttttttttaa atttacttgt 540
ttctgcataa ctttgagtga tgt 563
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<210> 85

<211> 407

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA818801

<400> 85

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agagtaattg cccattgctg gtttgtggaa ttgatccaat tccttgaaaa ataagcatgt 180
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gctgttctct cagctccagt gtgacatttg cttaaagatg aagccagccc cattctaaat 360
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aaaggatatct ggacagccct tcagcgatga atgttttcct cgtgccg

407

<210> 86

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818907

<220>

<221> unsure

<222> (1)..(582)

<223> n = a or c or g or t

<400> 86

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aagctatttc actttttcaa aatgctgttt ctctttgtag accaatctgg ccacaaaagg 120
ctacctggct aagtattagc cagaaacttc taaatcccag tgtgatcttc ttgtggcatt 180
tttccaacaa ataatgcaga ccaaatacaca agatggccac ctcaactggc acatggctct 240
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tgacacacag ccctgcttcg tctcctcatc ggcccatctt ctggtctcct tcctcaccac 360
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gcaggctccg tatcccgccg ccactgagga accatccggg gatgcagacc gagtacgggtg 540
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<210> 87

<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818910

<400> 87

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gcctacaagg acatattcag caccaaataa aagattacaa cagccataga atataatcta 180
taaagcaaac atttaatat gcactttgtt tcgcaaacat tttggatttt acttttctta 240
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gttatgtcag gaattgacca atatttagaa tagtgtaat cctcaaaaga gtaaagaaat 360
acttaatggg aaaaataaaa ctttacttca ccaactctta aaataatttt gtcaccaatg 420
ccaattatca gaatattggt cattcttgct taataaagta tttttagaaa catggtagtg 480
agcgccccga ggccatgcac accaacaatt gtcccttagt cagacataac acagagtcag 540
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atcccatcag ct 612
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<210> 88

<211> 412

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818921

<400> 88

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 tttaccagct tctcaaattt gcctcctgcc ttcagagact aaggtactac atatacagat 180
 tttcaatttg tttttactct ttacacagaa aactgacact atttacacag actgtaaata 240
 gtatcttagg gagccaaatc agagtaaccg tacttgtagg aaatgaactt catacaatat 300
 aaaagtctta agaattctat agtttatata attatattat ggcaagtctg tgacaatata 360
 tagtataaaa catgaagtat ttacagttag gtaaacaatt acataagggg aa 412

<210> 89

<211> 598

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818947

<400> 89

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 catcgtggac tcagtgtggt aatatcagct tccaactacg aagtcggcaa ctaaacggcc 180
 ttaccacacc agagcacagt ttaatcttcc atacagacat tgtacatggc atttggcata 240
 agacttgctc agaataacat tgcaacggag tggagggcag aagattgtta tgcaaacaca 300
 gtgatgaggg ctctactga aagctcacac tccaaggata gaaacttttc cgatagcagg 360
 ttttcagggt gcagaagcaa tgtgtcgtgt cggaactaag ggtgttctgc acacgctaca 420
 aaacagttgc atgggtgcct gaactctagt tggcaataat tatccacatg ccagaaagtt 480
 cctcacacaa gcaacagagt gcccacaaaag ttggggctctg agaaaacatg gcctgtccag 540
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<210> 90

<211> 491

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818951

<400> 90

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 gtgcacgagg agagaggcca aagctgttgg gaaagcaagt caggacagg gccaaaagtc 180
 atctacatgg gaaccctggg cccccagcct ctgttcttgc ggtctcctga ttccaggcca 240
 gggctgggaa ttctctggaa aactttctac aggagcaaag aacacagaga taatgtgtcc 300
 cttctgtgat aaagtcagag ggtttccaat cctgcattcc tccttcaacc ctggctcaag 360
 tagggccatg aaaaatagct gggctctatt gcatgtttca gaggcattaa tttttcctgg 420
 tgtcccagcc caccagcgcc acactatggc ccagagttag cactacaagc gttgctggcc 480
 taatggatag g 491

<210> 91

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818996

<400> 91

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atccacagag aagtacccaa ggcgctcaaa ctggaacttg tcaaagggct ttgccaaagc 240
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<211> 318
<212> DNA
<213> Rattus norvegicus

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actgtaaatc tttctaaatc totgcaatgg ctctaaatga gggtaagtga ataagtggaa 180
gtgaaggaga atggagggca ggaggtggag ccactccagg taccaacca cccagactcc 240
tagctagaca caccgattcc ctattaatcc actccatggc taccagaga tcccaggact 300
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<210> 94
<211> 583
<212> DNA
<213> Rattus norvegicus

<220>
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<210> 95

<211> 281
<212> DNA
<213> Rattus norvegicus

<220>
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<400> 95
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gttgaataca agagttaaac taatccacac cagctcaaaa accctgtgga gacttagttg 180
ataagaatgg acgcccacag tgattctcaa ccaattacaa gttttcacag aacacagtaa 240
acgaaaaggg taactatgag agtcagtaca aatatgctag a 281

<210> 96
<211> 555
<212> DNA
<213> Rattus norvegicus

<220>
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aactcaaaaag acaccagaga cagctttttt tttttttttt ttttttttggg tttttttttt 180
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aggtaaacat tatgtattca ccttctgaaa tctacagtga tcttaacttg tgctttcaat 480
caaatgtggg aaggtgggca catgcctcca taccacata catagcatgg acccatcact 540
tgtcagtaac tcagc 555

<210> 97
<211> 444
<212> DNA
<213> Rattus norvegicus

<220>
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<400> 97
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cgatgaaact gctactgaat ttagagaggt gatgtccgcc tataagagca tttaaagagt 180
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tgacaatttg aaaaacaaca gcaatacaac aggccaccag atttgctttc ttcctaagaa 300
actcaattat aaacacttga agtaataggt gagaaggcag atcaagcatc accagggttta 360
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aagaaaataa ctcacaaaac tatt 444

<210> 98
<211> 351
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819199

<400> 98

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cgaaattggg ggttcaaggc caggtcttgg ggcccttttt cggccatcta aaaaaaacat 180
ccacctaatg ttaactgggc ttgaaccggg acaaaaactt cacttcccaa cttaaaggcca 240
cccaagggaa aaccttgtac caagagccca ggtaaaatga cttggctgaa agccaccct 300
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<210> 99

<211> 621

<212> DNA

<213> *Rattus norvegicus*

<220>

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<400> 99

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<210> 100

<211> 336

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819333

<400> 100

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aaacacatct ggacctgaag caggcaccgt aggtcgtacg caccacagga aaaggctgtg 180
ctcaataggg ctgcaaaatg attttggctc tggggactga aggaggacac actgatacag 240
aatcaggggt atgtgactct gagcgaccgt ctgtcacctg gaccaagcat gtcaaatggc 300
gtttagggga gtttggtcgg tgagtcaaaa gacttc 336
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<210> 101

<211> 402

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819383

<400> 101

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gtatgttggtg gcaaatttcc agaaaacaca ctgaaaatct ttacagttca gaactgcttc 180
 actttatata taattacaaa ttactatata gcgcttgggt tgaacccgac tttttactta 240
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<210> 102

<211> 529

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819530

<400> 102

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 acgtggaatg gcctggtgag acgaacagtt tcaatacctg gttacagagg cacaaagtca 180
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 ggcaagctag caagcgaact gtccggccgt agagcgtgac gagggagggg ccttccacgc 360
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 gcctacccct cccactacac ttctaggctg cagagagcta gcccggggtc tgtagaggca 480
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<210> 103

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819672

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<221> unsure

<222> (1) .. (485)

<223> n = a or c or g or t

<400> 103

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 cagccctctt cctgcaggat accaatccta tgtttgctgc aatcctgacc tgctcagatg 360
 aagcggcact caggcactag tcagccgttg accatacaag aacagagaac actggagtag 420
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<210> 104

<211> 597

<212> DNA

<213> Rattus norvegicus

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SEQUENCE LISTING

<110> Mendrick, Donna
Porter, Mark
Johnson, Kory
Castle, Arthur
Elashoff, Michael
Gene Logic, Inc.

<120> Molecular Toxicology Modeling

<130> 44921-5038-US

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<151> 2000-07-31

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<151> 2000-11-02

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<151> 2001-05-11

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<211> 158

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158

<210> 2

<211> 301

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA684919

<400> 2

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gtcatcttga ctgcatctgg actcacatag gaggcacctc tgggagtatg tgggagggta 180
ctgccagaga ggcttaacag gatggcagac atttctgaat atgggcagca gcaaaccatc 240
agctgtggtc ctgagctgtg ccttgtgctg gagggcaggt ctgtaggtag catgatggtc 300
g 301

<210> 3

<211> 371

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA685974

<220>

<221> unsure

<222> (1)..(371)

<223> n = a or c or g or t

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ccccagacc cggaactcta ttaatccctg gtcaggccag gctgaagagg gatgagctga 180
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ctggtttcat cgggttggtc ggagagcgca accactcctt cttcagcagc tgcttcagct 300
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cgggtgaaggc c 371

<210> 4

<211> 290

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA686132

<220>

<221> unsure

<222> (1)..(290)

<223> n = a or c or g or t

<400> 4

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ctgattatgc tctgactaga aattatttgg aacttatggt ggagcttcct tggaacaaaa 180
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<210> 5

<211> 342

<212> DNA

<213> Rattus norvegicus

<220>

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<400> 5

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cagagtatgc aactggcta tcattgacct aggtgattcc gatattatta gaagcatgcc 180
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<210> 6

<211> 496

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799294

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aaaattgttt agctat 496

<210> 7

<211> 328

<212> DNA

<213> Rattus norvegicus

<220>

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<400> 7

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<210> 8

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>
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<400> 8
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 cgtctgataa attaactctg ctgtaacctt tggatgaaat gcaaggaggc agtgcccggg 180
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<210> 9
 <211> 683
 <212> DNA
 <213> Rattus norvegicus

<220>
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<400> 9
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 gatcacttga gaggtgggtc cagagctggg gaaagaagag ccgcaggcag agtcagaagc 180
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<210> 10
 <211> 731
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA799511

<220>
 <221> unsure
 <222> (1)..(731)
 <223> n = a or c or g or t

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 atcaacaccc atttttgga ttttattaag aacctgtact aaatgaagt tttaatcaga 180
 aaacattccc ttttacctta aaagtgtctt ttaaatgaag gcaccaacaa gaactacttt 240
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 tacctgcagc aagacacctt ccattttact accaacacca ctgaaggaag caagaaaagc 360
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cataggtccc ccagtcctcg aacaacaaag ttcacctca tgaccttgt aaaggtgctc 600
tcngccgctc ggccaatctg gccagggcaa atcccaaagg ggccataatc caacaggcaa 660
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<210> 11
<211> 483
<212> DNA
<213> Rattus norvegicus

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<223> n = a or c or g or t

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caattacccc aggaattaga aaatcaatac ggtcttcaaa tacccaattc caatcccaaa 480
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<210> 12
<211> 570
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AA799531

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<220>
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<222> (1) .. (570)
<223> n = a or c or g or t

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<210> 13
<211> 633

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<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799545

<220>
<221> unsure
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<223> n = a or c or g or t

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tcctttgcaa acaaagatgt ccacagtgtt cctggaactc tggctcagga aaggggagac 180
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<210> 14
<211> 604
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799560

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cccagtcacca ctttaggtgc acactgacag ctattaaagt tagtgccggc aaaggacccg 180
ggccctctcc taatgcccct gcttcaatgt gtttaccatt gttcttctact ggccaccatc 240
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caccagcaaa tattcccctg agagacatcc atttaggagc attgccttca gaggccttaa 360
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tacacataca cacactctcc tacccttgca aatatgggct aaagaggggg agtgatggca 480
tccccgtgac agctaaaaca acttattgtt cctcacctat agaaacaagt cagagaggga 540
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<210> 15
<211> 541
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799576

<220>
<221> unsure
<222> (1)..(541)
<223> n = a or c or g or t

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agacaaatac ctcaactatg atgatctaata ttttggtgaa taatatacat gattagacag 180
aaataggcaa gtcacactg gaagattaac tatcaaacac tcagtcaaaa ctccgtttat 240
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tgtttccatc ataattattct tcaatttcag gtaacttggc tggcactgag agtatccagt 480
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a 541

<210> 16
<211> 590
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799599

<220>
<221> unsure
<222> (1)..(590)
<223> n = a or c or g or t

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aggcataaaa caaagctgag gtggagagac aagcactttc tcttttaatt tattaacact 180
agcttaaaact ttgttaaaga aagagtaagg aactatgttt taggagaact gcagggcctc 240
tctttctgtt gaaggctgaa tctcacacag tgttgtatcc catgtagggg aaaataaaaat 300
taattcccca cacactccac acactgtgct ctgcctcctg gaactttgct ccaacctcct 360
cctcaaccaa cctcagcatc tccaaaccan aagacagcta ggagaggaca taatcaaata 420
ttaggtcctc agggaaagga gaaccaaagc aatagaatcc acttcagtcc tgccagatag 480
cacctcatgg attcctctca gtctagcana aacaggatat gaggactcct ctgaatatggg 540
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<210> 17
<211> 687
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799601

<220>
<221> unsure
<222> (1)..(687)
<223> n = a or c or g or t

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atcactttta tatacaaagt aactgctacc attctgaaca caaagcagcc agtatgtaca 180
tagtggttaat aaaatgcatg gtgtcttggt acttttattc tttacacata aagcacaaaa 240
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gtatgtccct tctcatagtt attagtattc ttctccaata ggaacatcag agttaagct 360
cataccctgt tttgtgctaa cagttccggg gaggtatttt ctactccagt actcaaggaa 420

aacccaaaaa gccaaacacc attctaggac ttccctgggtt attttgtttt tcaaaagttt 480
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 cagatcaggt gaagacagct ttacacagaa aactgctaac tagcacactt cttcaccatc 600
 ctaataaaatc tacacacaca gaaaaatgtt gacaaaattt cccacnttnt atataaataa 660
 ttttattaca tacacattga agtggca 687

<210> 18
 <211> 539
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA799633

<400> 18
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 ggaccatggg ctgtgggtctc atgatcggtc ccttcttcaa ggctccagga aggatgctgc 180
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 ctctttagtag taagtgtcac ggcggtctgag ctgcgcctct ctgttcttca gttccctggg 480
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<210> 19
 <211> 591
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA799645

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 aatggatctg gttcctgcgg agcttctgca ctggccatgg agaggagaca cacacagaca 420
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<210> 20
 <211> 616
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA799672

<400> 20
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<210> 24

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799803

<400> 24

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tggtattctaa cccaatgaat gctggcttca gttttcatct ccaatctctt tcttgatcca 180
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cccactgtcc ccctggcagg cgtcatgctt gagagttggg tccccagaac agaacatatt 360
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ggctatgggc agacggacaa acctgagatt aaaagctatt ttatcttctg ttatccccgaa 480
gccgtgaca taaccataa ggtctttgtc ataaaaggtc tcattgtctg ggagacagat 540
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<210> 25

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799804

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tcctaggttt agacataacc cacacaaagt tccaactata tggcttctat actttttcgt 300
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caacctctga agtccaaagt tcaatgaatg cacaacagtt caagcagcag ataccacctc 420
agaggaaata tttagtttgc ttctttgttt ccctccagtg ttaatcctgc taatgtctgc 480
taaggtcaac catgactgga acacatgctg ctgatccagt tgttcaagac cagcctgggc 540
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<210> 26

<211> 500

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799812

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gggtgaacga acacacttgt tcttctgtat agacatgaat tctttacata aactcaacat 240
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acacagacag acacacacac agagacagac agacaggcag gcagacacac acacacacac 360
gcacgcacca ctcttgagaa gcagtgttct tcatggacac ttactagaag gtcattttct 420
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<210> 27
<211> 612
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800059

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<210> 28
<211> 599
<212> DNA
<213> Rattus norvegicus

<220>
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<210> 29
<211> 613
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800243

<400> 29
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<210> 30
<211> 560
<212> DNA
<213> Rattus norvegicus

<220>
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<210> 31
<211> 560
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800339

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<210> 32
<211> 678

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800429

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agccctgata ctcatcaaata aaaattaagg attaaagaca aattttgggt tcatgaaatg 540
aattctactt ccattcaaca ttttacaag aataatggga ttactcatt ttcataatta 600
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aaatatgttc tcacacaa 678

<210> 33
<211> 572
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800551

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taacagaccc aaggaacgcc tttcctggac tatacatgca aatcacctct caacatacag 240
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<210> 34
<211> 551
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800576

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551

<210> 35
<211> 610
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800739

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ctccgtggtg 610

<210> 36
<211> 359
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800797

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aggctgtgcc ttccagcttc ggttaaaactg cagtgcagta gccaggggtt agttgctgag 180
aatcatgttg caagcagaac catcgacat gctgaaactg gccacgagg ttgtgtggag 240
gctcctcctt aatacgtatc gtggaaatga gcccggtggc ttccggaaga acgctgccag 300
taacgaaggc tccaggaagg ctccggtctc aggagctctg ccatgctgac cctcgtgcc 359

<210> 37
<211> 495
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800962

<400> 37
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<210> 38
 <211> 560
 <212> DNA
 <213> Rattus norvegicus

<220>
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<400> 38
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 aactaacaac tgtcctacta ggtgagagag aaagattatg tgagaaaatc agaataccat 180
 gtgatttcta gatttgggac gttcagaaac attgggaact aaatttagaa tgggccaag 240
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 cctccaaagt gtcgcgatga tggccttgca cttgggaatc aggttctgct cacttgga 360
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 agccaccagg aatgctttct aattatcatt tgcaactaga actgtaatca gaaagaaaat 480
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<210> 39
 <211> 437
 <212> DNA
 <213> Rattus norvegicus

<220>
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<400> 39
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 caagccagaa acttggtcag tgctggcaac attttttgag tgtttgtgat ccaggaatcc 240
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 aattaccaga taaccagatt ctttatcaga attatggaat aaaatatgta ctgtaacaaa 360
 taatttttag aagaaaactg ttttaagataa tgctcttaac attttttttt gcaaacattg 420
 aagattacat tgaagaa 437

<210> 40
 <211> 485
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA801346

<400> 40
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 tcagacgtcg gggcctgggt gccagagga cccagaaaac tgaggtcccc gtctcagctg 360
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<210> 41

<211> 416
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA817685

<400> 41
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gagatgtttg agtgaacctc agtgcagaga cgcaccccc tctgatggaa aactaccaca 360
gcatattttc cttacctcta gaacctctt ggctaaaagg atggctcagt tttgga 416

<210> 42
<211> 454
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA817688

<220>
<221> unsure
<222> (1)..(454)
<223> n = a or c or g or t

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ccagggtaac agtggttaac agtgtaaata gataaaaatc caagttgggt ttttgagaa 180
cgttgtctgc agactgccaa tcttgacgtt tctagagcca aggactcaga attccttctt 240
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gtaaccactc cgtggtcgtg ggagagcggg ctgaaatcca cttcccagcg ctggaaagtc 360
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cactgcgagg gcgctgggtt aggtgcgagg cgtc 454

<210> 43
<211> 429
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA817695

<400> 43
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gataaatgac tatgcatatt caggtgattt attaatctag tacaacttcc attcttccac 240
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cactgaaaaa tcttcaactg gattatgccg atctttacat tatgcattac ccagtgccaa 360
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tctttatga 429

<210> 44

<211> 522
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817726

<400> 44
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 ccttgactac atacacatat atgtatctat tcttaagaac agcaatcaag aggttaacaa 180
 taatggaagg aagaagtaga caggtaagtc actgccaaat aacacaagtt cataatgatc 240
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 tttcttgctt ttgtgtttca gtgaatttgg actaggtcca aaaactagac cttcaaaact 360
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<210> 45
 <211> 557
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817761

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 ttacaacaga gattctccag ctccagccc agctctgtcc cctgacctgc tgtgggttcc 180
 ttgcacactc acgcctttca taaagaagga ggtacacaca gtagaacggg aggggtcggg 240
 agaatgagca catgggggtat tctgtgtgca tgggggacag aaaggtctgt ctgctccact 300
 gagtgtcagc cactgcgatt ccaaacagaa aagaatgcaa gttgtcaaca agacacactg 360
 tcctcaggag gagagatgat ctaagtcaat cgaaaaagaa cgatggttta gtacccacac 420
 gttccccagc tgaggtgcca aagccataga taggattgta aacatgcggt tggaacaggt 480
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<210> 46
 <211> 605
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817829

<400> 46
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 aaccgtacaa agaacataat catggaagca cggttacagg ggaagcagaa gagtctgagt 180
 agtgatttca ttctcactga ggagcggcac cctgaagaat cgagtccatt agtaacactc 240
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 aatctcggtg aagggtctacg gcttatggag tggagcagag ttcaggtgtg cttgcgggct 420
 ccggcctcac cgtaccatcc cacctgatgt gctggacaga ggccgctctc tcatgcgccc 480
 gcaactaac catgggagct gcaatagaat gaaccatttc tgtggcgctc ccaggtctca 540
 ctgaggaaga aaagacttca tacacataaa tataacaatt gatctgtcta taaattatag 600
 tggtta 605

<210> 47
 <211> 612
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817841

<220>
 <221> unsure
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 atcaattcca acagctttac aaaatgtcat tcatctaagg catttctgtg gttctcacgg 240
 ccacatgttc acatacataa aggcctctat tcatggacag agagatacgt tctttaggag 300
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 cacttggatt attttgtgat gcagactaca agaaaatcca tgctggatta tttgctttcc 480
 aaaggccact ttcaaagtac agatttcgag tccagaacaa ataccacag cgagaacaaa 540
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<210> 48
 <211> 622
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817849

<400> 48
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 tctacttaaa gatagcacag gagcagatcc gctctgcttg tcttgctggg ttataggggtg 180
 caactcatcc tcctgggttc tggctgctgg gtacagggct gagagtgggg ttaggttttg 240
 aaaaaacatg gctgtgggta gcacgagttg gcttttgttg tgtttctttg cataggtgtt 300
 aggagccgag agcagctagg gtgaggatcc agaacacagg cttgacagtc cccatcctgt 360
 ttgcctgccca ctggcctggg gcatcttgct tatctttgag gaagtcctag gaaatagttt 420
 ctgtaatgca tcctgatttg aaatcagtga aagtgttttg gcagtgggaa aataacaatc 480
 ccacttcaga gatctacaa acggaaaatt tgccctcgaa aaactccttt aaacgctaac 540
 tgagacaaat gattccgtgg gcaaggagac tgtcagccag agctctgtaa aatgcattct 600
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<210> 49
 <211> 493
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817921

<400> 49
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<210> 50

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA817925

<400> 50

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ggcacggcag tcctcagaac gggcactgag acagcacctc atgcgtgca ggtctttaat 180
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acaattcaat tggcagaaaa atggctatcg ctgggtggaca ttaggggttg agtgaaaaaa 300
aatcccccct cccccaattc ttgcttgcca ccgtgggaga cgagggtgagg gttccttagag 360
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<210> 51

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818039

<400> 51

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gatgcctggg tgcagggcca gacacaacct tagggatgtt tcttacctgt acatacatat 240
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acatgattta gtgccaagc cagacacatt ctctgggtgt ggatgggtcac tgtcatatag 480
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<210> 52

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818089

<400> 52

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tggacacgat gagttattta ttagcacagg ttgtcacaag tcgccagctg ttctcattct 180
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<210> 53

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818105

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<210> 54

<211> 535

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818107

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<210> 55

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818123

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 ggactccagt cagaccagaa ggctgccaat caaacttggt attggcagag acagcagcct 180
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aaaaagcact tttattctgt ccttttcccc ttttaattttt ctttttttaa ccagcaaaag 300
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aaggaagccc tcagagatgt gtcagtgggtg ctgaggtcca ccgaggccca caccaacagg 420
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<210> 56

<211> 518

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818139

<400> 56

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<210> 57

<211> 363

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818158

<400> 57

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<210> 58

<211> 357

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818163

<400> 58

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catattaaat gtagcagaac acttgggttt ctggttgccct tgctactaac ctgactcttg 240
attttgtgta tgtaagtttc tatactcact tactttttctc cataagagaa gccatacata 300
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<210> 59
 <211> 572
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818211

<400> 59
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 atctacccag ctgggggtcct cggtagtcct aatgtgggtgc tgaagttcca gaggattctt 180
 gggagagtcg ctggtcttca gttcagggtg gaaggctgaa gacactgggt gctcatgaca 240
 gcaaagggca gcagcagtga cagcggcagg gacaacgtaa gtgagcagag aagatgagct 300
 caccaacaag acacgaaagc aaacaggcag caaacaaaaa caacaacaga agactagtgt 360
 tttccctca gggatccttg ttttgtggcg gtgctggaag tgcttccac ctcagctaca 420
 tccacaggtc aggcagctca aagtctctaa gtgcagacc tggatcctga cgcctctggc 480
 ctctgtgagg acctgcactc acacacacac gtagttcctg agtccccgtg tctcaggatg 540
 ttctccatc agagcagaaa cctacacctc tc 572

<210> 60
 <211> 464
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818258

<400> 60
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 cagacatcgg aatagactat ggaacttgag cctagtgaga tcagaagtca aaatctaaag 180
 ccaggatgta tgatcagacc atatgttctt agccttgcca aacaacatgc tgctcttaaa 240
 atgaaacaaa tggatgtcac tgtgaagtaa ctgagatctg tctaggtttt ggtgtttatt 300
 cagaacactt tctttgacta cattaggaaa taagtgtttt tgctgagcca actetaattt 360
 ctagtttagc tttttaaaaa aggatatatt taagataccc cttaatatga aagttaaatt 420
 ctacactata gaaattcccc taaaaggctt aaaatacctt gata 464

<210> 61
 <211> 494
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818264

<400> 61
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 ggagaagacc atgttgagtc acaaccctcc ccagaacagt tgactgggac aggggtcctga 240
 gcacgttaag gatctccaga cacctgacag gctcagtgga cgctcacgg acacctcatg 300
 tctgtagctc taggaggtga cggggctctc tggatggcga gctagccagg ctggagctgt 360
 gggcttctcg aaggctctcg agcactcgga gcagctgggc cagtgagtc tccaggagctc 420
 cgccacggcc tgtggatgag gtgcctgctt cttctgttgc ccggctcaag agctgggtgct 480
 tttccgaag agca 494

<210> 62
 <211> 429
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818271

<400> 62
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 tgactatttaa ggaaaacatt aaatattaaa taacagaaat aaaatgtgta aacactaatc 180
 taactgggga ttttgctatt gcaactgtcc aatgaagtgg tttcaacagt acgaaaaggg 240
 tgaagacagg ggtgcttcca gtccacttag gagtcatggg tctcagttca ggggtccttt 300
 aataaaatct ggtccaggac aagaggaggg ccactccact ccactggctc tcattggatg 360
 tattccactc ggtgaatgct cacgttcaag cttgggtact gagcaaatac ttttaatccg 420
 tctccctta 429

<210> 63
 <211> 548
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818287

<400> 63
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 aaatggcagg taggaatttt ctgccttgcc cttctttact taagaacaga aaatactaga 180
 aagacccgtc cacacctcaa atccactggc tatgcatctc ctcaacgatt gcaggaattt 240
 cggtttagtt tacagcaaat ggcatattgcc gcagtccttc cttagactag tgcaggcacg 300
 gaaagatcac agtgggtgctg gacagtcctg ttccatccgg acacacctgc tggaggctcag 360
 atgctaacac aaagaggatt tatctctgac tcagatcacc cactgtgtgg gccagcatgt 420
 ttgaccaccc cagagcccat cttacacggc ctgggagtga cttcttgga gattctgttg 480
 actgtgcaac tgaaacatgc gtagatgcta tctattcctt ggagcgcttg cccagagtga 540
 aatggaca 548

<210> 64
 <211> 554
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818288

<400> 64
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 gaaaaatgaa aaacacattt taaaagggtgc ttcatttttc attccattag taaagccttg 180
 acaggctctt gaaacgtcag tcaagtccag gaagaactag aaatgcctga gacatttcca 240
 tttcagtgat tattgcaaat aaaaattcct cattgtgtct tcaaaaaaat ccctgagagg 300
 ccagcaagcc cattgtgcag acggagagac tgaggtcaga actccttagt ctcctcatgg 360
 gagactggag catgtcagtg aagttattgc tttaaagttt tagcaagggt tcgcaagcat 420
 tcctctgctc tccactgtgt ttctctgggc catggagaag tgaggacggt actggggtct 480
 gctctttgaa gaaccagtg tgctgctggg tggccccaga agcagcagag ctcggtgtgt 540
 cctcccaact cact 554

<210> 65
 <211> 551
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818355

<400> 65
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 attttaagat catccgaaat taaagacaca ttgtaagcca gtccttggt ctcctggtcc 180
 gtagcaaata gcaaactatc aaaaacaaat acagttttaa aatgtttaag gtaacaattg 240
 ttcccccaag cctcagaagt tacatattat aaatgtgtgt cacctggcag agagggagtg 300
 agaaaggagg gattgggaca tcatgcatgt taaatgtttt aagggaagtgt gcactctactg 360
 ggctggggag acggcttagt cagcacaagt aggtataagg gcctgaattt ggcacagtca 420
 aaaacgggtg gttcgatgga ctgtggttat aaccccagag ctggctcact agctatcaag 480
 cctagtctaa gctcctgcaa gccccaggcc agtcaaagat cctgttttcag tggaaagatg 540
 gatgacgct t 551

<210> 66
 <211> 340
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818412

<400> 66
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 gggcaatgcc ttcgccaaga caaatgctgt ttcctgtgga gaaggcctg aaagctaac 180
 tctttttcag tgccccattg gcatccagga agtgttcagg attgaagctg tctgggtggt 240
 caaagtactg tgggtcatgg agagctgaac tcaggatggg gtacacttca gtgttcttgg 300
 gaagcaggta cctcgggaac atggtgtctt cctcgtgccc 340

<210> 67
 <211> 564
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818421

<400> 67
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 ttaagactgg ttgagaaata gaacaaaaac atagtataat gttaaaaaa ttaagaaca 180
 ttttccaagt ataaatttta taaatacaaa acaaatccac aaatgacttt gaatgctaaa 240
 taaatatcta gttaataaat tcagttggta ctggctacag cacatcagag cttagcgaact 300
 ggactcactc atgtgtagtg ttgaaacct atgacatgga gctcagacac actctctatg 360
 gtgtgttcta gcaggctcac cgtggagaca agacctcctt actactggaa ctccaaaggc 420
 tcaatgacaa aatagagcat agatgaaaaa tattttccaa gacacctgaa cacatgaatg 480
 atctcaaaat atacacaagc ctctgtaacc cagtactgta cccagtacgt ctatgcaact 540
 tagtagacac tgaacaaaag ctgt 564

<210> 68
 <211> 519

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818474

<400> 68
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aatggtttca attaccagca ttgaaacaaa attagtgcga aaaaagccaa atacaattgt 180
gcaggcaatg gttttgggat cttagagggt agcttgtttt tgaccagtgg gacaaatgag 240
cctgggggtg atgtctcttg gttgtggtat catccttttc ttcacaaag gacagactca 300
taccaggatc acaaacacac actggtttca gcaaattgat agtcacagt taaacagggc 360
caagcaacca aaacctaaaga acctaaagac gagcaagata aagacaatta gagtctact 420
atggagtttt ggcagttttc ctaaactctaa gtgttttagaa ttcacaatag agaagagctg 480
tttcaagatg tcaaagaatg aagtcaaaaa ataaaattc 519

<210> 69
<211> 450
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818490

<400> 69
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ggtaaggggt gtcgtgggtg tccctgagaa gctcagttca gagggccttt gtctaagaga 180
ctctgagaaa gggatgggtg gcaggaagct tggggaataa ggtattaag aagagaataa 240
attaaagggg gggcttgagg gacaaggggc ctgtgctgtc cttcaaacag ctgggagcag 300
accacgggtg ggaaagaggg tggcgggaag agcttgatag actatcttaa gaaacaccgt 360
ttaccactt cctctttaac cactgcagtg cacaacgagc cagggcacag ggcaggagcc 420
cacatgcccc agtggccttc aacatggcac 450

<210> 70
<211> 507
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818521

<400> 70
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tacaaaacag taaagaaaac cttttcttca caaaagatac acatatgata catttgttcc 180
ttacactgac atatgaactc attcctagct tacttaaaac aaaacccttc tggactctgt 240
atgccaatat ctagaggcat gtacctgggtc cttttatttt atccagaaag caaagctatg 300
cagagaaaat tcctcagttt ctttattaaa aaatggcctg catatggcct gctacttatt 360
attaagtgac atttaaatgt tctcaagaag ttggaaactc tttagaccag ttgtcctgaa 420
atgactggac aatgccctgt ggatgttggtc aaaatgcagc ttcttatgaa ctggctcact 480
ggggtgggag tggggtatgg tgggggt 507

<210> 71
<211> 557
<212> DNA
<213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818524

<400> 71
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 attaaggatg taaccagttt ctaacatgag cctattttct acactgctta tgcacatatg 180
 cccattaaca aatggaatgt tgctcggttac atttattggt ttgtgagtgt tttctggaaa 240
 aactgcagtt atttgtgaag accaaagtgc catgctagca ttgcatgcat ccaaataatta 300
 atgcacagag gcacagtaga gcaacaagag agcatattga aatactagca caccctatc 360
 cccttttttat tgcttgttta gcttaaactt taaaaaccaa gtaaaaatct gaattcagcg 420
 gtcaactgcc aaagaaagta acagcagggc acatacttag gacttgaatg aaattgttaa 480
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 aaagctcctc aaacagg 557

<210> 72
 <211> 492
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818593

<400> 72
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 cagtgtttta gtgaaaggct taaattttt ttaattgaac tactagttca attaaaaact 180
 caaaaaactc attgtgttaa agtaactata tacatagata aagtgggcat ccaagaggta 240
 tagcagcagc cctttaatgt atacaccagg gagtgatag catcttcctg ccctctgcct 300
 ccagcagttc ccttcgaagc tggcctgttc ctctgcaccc ttcagggctc atgattcctt 360
 gcgtagctct gtctgttggt gggttcgtgt agagtcgtat gtgagtcctc ttttctttct 420
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 acagctcctt ga 492

<210> 73
 <211> 515
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818604

<220>
 <221> unsure
 <222> (1)..(515)
 <223> n = a or c or g or t

<400> 73
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 tcaccgggtg gccaggtac gcctcggcga tctccttcat cttggtcagc accatggacg 180
 agatctcttc cggttagaac gaccggttct cgcccttgta gttcacctgc accttgggct 240
 tgctcgccgtc gttcaccacc tgggaaggcc agtgcttcat gtccgactgc accaccgggt 300
 cgccgaactt gcggccgatc agccgcttcg cgtcgaacac ggtgttctgc gggttcagcg 360
 ccacctgggt cttggcggcg tccccgatga gccgctcggg gtctgtgaag gccacgtanc 420
 tgggggtcgt gcggttgccc tggtcgttgg cgatgatctc caccttgccg tgctggaaca 480
 cgcccacgca cgagtaggtg gtgcccaggt cgatg 515

<210> 74
 <211> 470
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818615

<400> 74
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 ttagagagaa cacagaccca ctcccaggc aggcaactgt ttcccaatcc ccctcatgct 180
 acttctgtgc ttctgttcag aaagtgata ctgtgtccca gccctagcaa ggctgaggca 240
 ggaggaccac cagtgtggga ccagtatggg ataggataca taaggaaacc ttggttcttg 300
 ttgtttttta agggaaaagaa aaaggttaagt ttgaaaccga attgtgcaga accgatcaca 360
 actcatacta aggatggaga tagtctttta ccaaaaacca acccggtcac cagcactaag 420
 atttgtttct ctggatttga agaaggaatt gagaaaatga tctgcaccaa 470

<210> 75
 <211> 530
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818627

<400> 75
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 cacacacaca cacacacaca cacacacaca ccccaatcaa ggaaaaactg tgtcctcgaa 180
 attttccagt ccaaagttct gttggtgctc ctctcgacc caccgtgctt tcccatggct 240
 tccacacaac agctgagact tctgccctct tcattcttga tgagattttt cagcaataac 300
 tttacattca tacattgcta gctgacgacc aatgtttccc atcgttatgc ctccagcaaa 360
 aaatatacat ggcaaccaag agcggacata gagaaaatct ggagatgtgt attgataaac 420
 accattgtag actaacagtt ggttgacaac ggttgctaag aaagcaattc caacaccaag 480
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<210> 76
 <211> 584
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818700

<400> 76
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 ctgtagttac ctcagcagcc tgggagtatg ggttgagatc aaccaagggt tagaatagcc 240
 ccttcacatt tcatcagtgc tgaccaaagc caaagcaagc taggatggag actacaacta 300
 accttccatg ttaaccagtt attttaagggt gacttaccct cacttaatgg cagttgagggt 360
 aagttaaaca gagagccctt acaaagacta agaaccaaat gaaaacttgt ttctagcctt 420
 tgttttaggt caccctaaac taaaatgctt ttacgtactt cttaacattc atgtacacat 480
 tctttcaggc caaagtttca gcttggaat cttgccaaact gtatgtccaa cttctgaaca 540
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<210> 77
 <211> 557
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818702

<400> 77
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 cccacctcta ccctggaagc tgccgccatg atctcatgct ctgggctgct aggataaggg 180
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 catgggatct ttgtcatcct gaagtcgggt ttgggggtct cctccacagg gtctgtattg 480
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 gccaggcttc caaagca 557

<210> 78
 <211> 537
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818721

<400> 78
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 tgtagtcctt ggatgttact ttctgtgggt ggcaccactg ccttcaagga agggaggcct 180
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 ctgctcactc ttgtgggtac catcacagta agggggccgc cgagtggcct tgcaggta 300
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 gtaggttttc ccggcaacca gctccaacct gatgggtgtt ttctgtgcca ccactggctt 480
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<210> 79
 <211> 596
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818741

<400> 79
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 aagaggctta cagtgtgttt cattaaacaa agcaaagctg cgacaaaaca ggatcacatc 180
 aatagtagta tgcatacaga gagtgtagta atccatcaaa cacaattggg catctgtgcc 240
 tttcctcaaa aagaacaaga gctctacact gaagaatatg tagtgacaaa gaagcattgt 300
 ttgtaggctg tgaaggaaca taaactggca taatgtcact tattaattca agtctcgatg 360
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 tgtatgttta tttccagggt gcacagctcc atacaaagac actaaagatg ggtttggaac 480
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<210> 80
 <211> 544
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818747

<400> 80
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 ctgtcatata ttaaaaaacga gaataagaaa gcacacactg cgtataggaa gctgccttct 180
 cctggaccat tttcacatta tctgggagac agaactgaaa caaaatacag tattcaccac 240
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 tgaggaagcc cctggtgacg ccgccgagat aatcacccat gagaagataa acagaactcg 360
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 aaacctctcc tcaaagccga ccaagcaatg aatcagaggg gtctgccacc tcggctgcac 480
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 gttt 544

<210> 81
 <211> 488
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818770

<400> 81
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 cagagaggag actgtggggc tggccctctt tgggctggag tctctggctc ccctgggcag 120
 tcggttccca gcctcccagg cttgtcatcc tctgaaggct gagtggggtg tctgccttgc 180
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 aggatcatgg gatgggagcc cacattgaac ctggtgagg tagtctgtcg cctgaggccc 300
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 tcggtgccag agtcatcctc ttcattccca aagcagctgt cggcctcctc cacttcaccg 420
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<210> 82
 <211> 561
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818774

<400> 82
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 ccggagctcc gagtctgcac gggacacagg cgtacacagg tagctcacag tatgcacagg 240
 ttaatatgag acacagtgac accggtggct tggcttggct ggcagctgcc agtaogatga 300
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 ggctgtacaa ggcttcgggtg tgtagtgctc tctgggttgg tcggaggttg gaagcaccac 420
 agacccttaa cctggctccc cggcaggcgg gacaggggtc attatttttc tcctggccag 480
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561

<210> 83

<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818781

<400> 83

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aagcagtgat acaccaaata caggcattat aaggattttt tttttaagta agtatctgtt 180
tagaatacaa tgttacaaaa gcaagaattg gattttaata aaacaattta ataaaacaag 240
gcacaatgtt taaggcaaaa tttatgaaga aagtatataa agttaatata agatcatatt 300
ttttaatatc ctttggggaa agaggcacia gaattagaaa tagcttaaac atttttttag 360
aatattagcc ataagaaagt aaaataaatt tgatacaata ggactctatt tttccagaa 420
aacaaactcc actgttgaat catatttctg agttccattt taatcatata tatatttata 480
cagatatttc taatacacag actttaagta cagaaaatta agatgtcaga gcatatgtaa 540
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ccgact 606
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<210> 84

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818796

<400> 84

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tgtacttgac tttagtgggt agattcttag ctgtggcatg gatacacatg atcagaacag 180
tattaaataa ggagaacgtc attgaaaaga gcaatctgtg tgcatcaaag aacattatca 240
agaaagcaaa gaagcaatgt gtataaaacg tccctaatag gttaaactac atagataaag 300
agaagattgg tggttagaca accagaggga ggaagaatgg agagtcactg agtaattggt 360
acagtgtgtt tgaaagggga taaagataag atcgtggcct gattttaccc ataaattggt 420
gattctttac acaagaataa tggttagagg aatgagccac aatagcagat attatccaac 480
cattaatgaa acttatgacc acttcttaaa tttttattta tttttttaa atttacttgt 540
ttctgcataa ctttgagtga tgt 563
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<210> 85

<211> 407

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818801

<400> 85

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agagtaattg cccattgctg gtttgtggaa ttgatccaat tccttgaaaa ataagcatgt 180
gtgttatcaa agcagaatct cattggacat caagtcgtgc cccagtggat ttctcccaa 240
caacaagagg cgtgaaatct ccagagccag caggagtgc ttgcccttc atttctaagg 300
gctgttcctg cagctccagt gtgacatttg cttaaagatg aagccagccc cattctaaat 360
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aaaggtatct ggacagccct tcagcgatga atgttttcct cgtgccg

407

<210> 86

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818907

<220>

<221> unsure

<222> (1)..(582)

<223> n = a or c or g or t

<400> 86

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tttccaacaa ataatgcaga ccaaatacaca agatggccac ctactgggtc acatgggtcct 240
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tgcacacagg ccctgettgc tctcctcatc ggcccatctt ctggtctcct tctcaccac 360
aatcttcacc tgaacagcag tcaaaaggcg cggtcggtag gccgcggaat tatcactgcg 420
catgcgacca ttaggttccg tgcttctact gccgaaatgg agaatcccgg ttccttagca 480
gcaggctccg tatcccgcg ccactgagga accatccggg gatgcagacc gagtacggtg 540
ggctggagaa ctggggagaat ggggggcggg gggcaagact gg 582
```

<210> 87

<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818910

<400> 87

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gcctacaagg acatattcag caccataata aagattacaa cagccataga atataatcta 180
taaagcaaac atttaatat gcactttgtt tcgcaaacat tttggatttt acttttccta 240
aatgaaaaat taggaattca agatagcttg aatactagag cgcaactgtg accctcagat 300
gttatgtcag gaattgacca atatttagaa tagtgtaat cctcaaaaaga gtaaaagaaat 360
acttaatggg aaaaataaaa ctttacttca ccaactctta aaataatttt gtcaccaatg 420
ccaattatca gaatattggt cattcttgct taataaagta tttttagaa catggtagtg 480
agcgccccga ggccatgcac accaacaatt gtcccttagt cagacataac acagagtcag 540
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atcccatcag ct 612
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<210> 88

<211> 412

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818921

<400> 88

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<211> 281
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA819111

<400> 95
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gttgaataca agagttaaac taatccacac cagctcaaaa accctgtgga gacttagttg 180
ataagaatgg acgccacag tgattctcaa ccaattacaa gttttcacag aacacagtaa 240
acgaaaaggg taactatgag agtcagtaca aatatgctag a 281

<210> 96
<211> 555
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA819140

<400> 96
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ctcagcttca gtgctggcat tccctccttc ctgtctcagg aaccagtcac tccaacttcc 120
aactcaaaag acaccagaga cagctttttt tttttttttt ttttttttggg tttttttttt 180
tgtttggttg ttttgctttg tttttaatag gcatgcaaaag attaaagtag tgaaataaaa 240
aataaatgac cctagattgg gcaaagaaaa ccatctttat gaagaagaaa tttaaagtgt 300
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aggcgaagtt ggtagtaggc aaatttttaa aaagtgatag agtagcgatg gtattatttg 420
aggtaaacat tatgtattca cttctgaaa tctacagtga tcttaacttg tgctttcaat 480
caaatgtggt aaggtgggca catgcctcca taccacata catagcatgg acccatcact 540
tgtcagtaac tcagc 555

<210> 97
<211> 444
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA819172

<400> 97
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taaatttagt ttttaagggtg agacaaaatc ataaatgttc ccacagttca atggcactgc 120
cgatgaaaact gctactgaat ttagagaggt gatgtccgcc tataagagca ttaaagagtg 180
attctgctct gctcacacgt cagtgtctga aactgtgctg caggttagcc tcagcagtcc 240
tgacaatttg aaaaacaaca gcaatacaac aggccaccag atttgctttc ttcctaagaa 300
actcaattat aaacattga agtaataggt gagaaggcag atcaagcatc accagggttta 360
agagcaagaa aggaaaaggg cagaagtgc cctcaaatca ggtagacatt aaatgccaga 420
aagaaaataa ctcaaaaaac tatt 444

<210> 98
<211> 351
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819199

<400> 98

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cgaaattggg gggttcaaggc caggtcttgg ggcctttttt cggccatcta aaaaaaacat 180
ccacctaatg ttaactgggc ttgaaccggg acaaaaactt cacttcccaa cttaaaggcca 240
cccaagggaa aaccttgtac caagagccca ggtaaaatga cttggctgaa agccaccctt 300
gaggaggttt gtgaccaatg ggcaattgga acccaatcaa gggaccattt g 351
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<210> 99

<211> 621

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819306

<400> 99

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gtatgtagaa catactggat tataaatcaa caacacagggt ccacttgggt aaaacgtaga 180
aataaaaaaa agaaaagaaa aaattaagtt aaagtattag cacatataca gtgtcagaag 240
gggtctccgt caatcaccat ttgaatttaa cgtttttcct ttctgaatgg cttgttttgt 300
tccacgaaag ttggactttc agaagtgtct tctaatacaca tcataagaac acagtactcc 360
gtgacatgcc tatcaattca cgtcaccttc tgcagattcc tttctgctga acagtgccca 420
ggaggctgag gcttattctg ttttatgtgc ttctcacaca ccgagaaatc aatcacagga 480
atacatttta catcctggat actacagtga aactcggcct aaatatcacc tactgctaac 540
acatgacaga atgtttagct attcaaatgc ttcagtaaag tgtatcttac caagagaaat 600
gtgttttgaa tcaaactttt a 621
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<210> 100

<211> 336

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819333

<400> 100

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aaacacatct ggacctgaag caggcacctg aggtcgtacg caccacagga aaaggctgtg 180
ctcaataggg ctgcaaaatg attttggtct tggggactga aggaggacac actgatacag 240
aatcaggggt atgtgactct gagcgacctg ctgtcacctg gaccaagcat gtcaaatggc 300
gtttagggga gtttggtcgg tgagtcaaaa gacttc 336
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<210> 101

<211> 402

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819383

<400> 101

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gtatgttggtg gcaaatttcc agaaaacaca ctgaaaatct ttacagttca gaactgcttc 180
 actttataca taattacaaa ttactataca gcgcttgggt tgaacccgac tttttactta 240
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 tgggttaggc ccattcccagc aggtggcaac caaggcaggg ca 402

<210> 102

<211> 529

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819530

<400> 102

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 acgtggaatg gcctggtgag acgaacagtt tcaatacctg gttacagagg cacaaagtca 180
 tcctgatgac accggtcact gataaatccc cagggacact gggatcggag aagaccgggg 240
 tgccctgggt ccagcgtgct ggagatttcc ttcaaagtcc tgattttggc aaaagaactt 300
 ggcaagctag caagcgaact gttcggccgt agagcgtgac gagggagggg ctttccacgc 360
 ttgggtgggt gagtaggcgc ccaacgcagg gaacaatgct ctctctcat ctgtctgcac 420
 gcctaccctt cccactacac ttctaggctg cagagagcta gcccggggtc tgtagaggca 480
 ctttcccccga gcgggtccga cctaactaac ctcaccaaac tcctcccca 529

<210> 103

<211> 485

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819672

<220>

<221> unsure

<222> (1)..(485)

<223> n = a or c or g or t

<400> 103

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 aagcacaaat caaaccaaca gaaagatagt tttttttaa aaattatctc cttaggcctc 180
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 cagccctctt cctgcaggat accaatccta tgtttgcgtc aatcctgacc tgctcagatg 360
 aagcggcact caggcactag tcagccgttg accatacaag aacagagaac actggagtag 420
 acagagcttt ctccaggaat gctgacaggc gtcnctccct tttgagaagt cctttgcttt 480
 cctga 485

<210> 104

<211> 597

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819709

<220>

<221> unsure
 <222> (1)..(597)
 <223> n = a or c or g or t

<400> 104
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 atactgagta gtgagggtcac agtcacgaag acatgggttc acattatgga ttcaatagac 180
 tcaagttctg aatgcagtat taagtgacta caactgaaat gctaagtgcc acgtttgaaa 240
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 actcgggtgca gttgcgttca gtcgagtcag tgcagtcagt accgttcagt tctggagtcc 420
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 gaaccagaag agctgagttg aaccagccag ccagagttta gcaagaacta cacaggggtga 540
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<210> 105
 <211> 478
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA819744

<400> 105
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 ttacaccca catcagctct gaaaggggtga acgcatctga gccagaagcc cagtctctcc 180
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 gatcacagtct ccccgaaatg tcccgatccc cctgaaaaca gagtgaagt caatgaaaac 300
 tggtaatata aaagccactt gggactggca gtaacattta atgattgaga aaatgcttaa 360
 aataatttta tgtatcagag acaaactgct tgcactctt tcattgatct taggaatttc 420
 ccagacacaa aaatctccat tatccagctc cattaaaatg agaagaaaa atgtgcta 478

<210> 106
 <211> 463
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA819767

<400> 106
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 aatacatgga gaactacact ctgcctcctt agacgcaa at ctggaaccca gtcctctaac 180
 ccaattcaaa cttttgtcac cagacacaga cacggttggg cagttgctta aaccgttacg 240
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 gggaaattat cagcctgggg gtgccaagct gctgctgatc aaa 463

<210> 107
 <211> 615
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819812

<400> 107

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tcttagtgta tacatactca catcaaaaata taaagaacac atgaacgtat accagagtca 180
gaggcgtgcg cttegtctaca ccttgccatc gatccttgga agacagatac actccattgg 240
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aagaaatatg gaagtcataa taaaataagg ccaacagaag taaaagtcca tgaaaaacgc 420
gaccatgtca ctgtggaatg tgacggctct tcagtgtgac tgaaatgtct agtgtggagt 480
cctcagcagt gccagtctct cctgtgcaca ctgtcgccct ggcgacagct gcagtgttct 540
accacggtac cgccattctg tgatttacgt tttgcaaagg tgtgtcctaa gcacagacaa 600
gctatcgcac acgat 615
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<210> 108

<211> 593

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819816

<400> 108

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tctcgttaca gtacactctg aaatatttac agtatgatag acttaaagca gagaggaaat 180
cacagcaaag gtaagccttc tagatccact tgtgggtcat taagagtata tgcacaacca 240
cacgggagag acaaccagcc tctcccttca tatatatcc tttttatttt cttatttttac 300
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ccactgtgga gccttttagtg gtgaggtctt ccgatctcag tgatgtcttc aacatacacc 480
atcatttttag tggaaaaaca attgatttgg tgaaatgaga ttcatttcca gacaggttag 540
taactgcatt cactgaattt cacactcttc tttgtgaact gtgaagaaaa tga 593
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<210> 109

<211> 254

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819840

<400> 109

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aaagtacttt gaaaggtgat ggataaagag actcggggct gctcaggaca ttgagaataa 180
gtgacggcca tgtactcagc cctaaggaag atgttcaagc tacctgccct ctctaagcat 240
cagagaacaa ttca 254
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<210> 110

<211> 413

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819853

<400> 110
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 cagacatcat gattcacaca ttgcgaccgt cagtagatcc tccaggaatg cagttggctg 180
 tcacccacc atcacgccc cgaagaagg tttccctctc ctgtagtcca ccatgtcggg 240
 atgactgatg ttgacgtata tctctcgcg gctccggagc tgcgccaggc cgccgaacc 300
 cacgctcgtg taccacaaag acccgtaacc gatgggatcc acaacagggg tcacggtctc 360
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<210> 111

<211> 447

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819854

<400> 111
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<210> 112

<211> 520

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819879

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 gtgccaggga gaagggtgcc aacctgggtg atagtcagca ctcagtaggg cctacaagag 180
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 aacagtgtaa acgctgggat aagagtatca gatgggtcaat gggccgaaat cagtgggaatt 420
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<210> 113

<211> 586

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA848378

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 gactttggga tgtttcctgt ggatgatgtg ggtatgtgtg tacatatata tacatacttt 180

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 tcattatgta atgaaatata aacataccat catgttattt taatgtcttc aaatacatga 360
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<210> 114

<211> 564

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848437

<400> 114

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 ctcggggtgt gaacaaaccc tcggggcatc ttccgtgtcc ttttaagtcag atagaagtat 180
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<210> 115

<211> 467

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848563

<400> 115

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 cttctccaga gcatccccgc cgccaagcgc aaccttccag aagcagaccg cagcgacatg 180
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 cagcacggca aggtggagat catcgccaac gaccagggca accgcacgac cccagctac 300
 gtggccttca ccgacaccga gcggctcatc ggggacgccg ccaagaacca ggtggcgctg 360
 aaccgcgaga acaccgtgtt cgacgcgaag cggtgatcg gccgcaagtt cggcgacccg 420
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<210> 116

<211> 497

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848639

<400> 116

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 tcctcccaag ttcgctatcc gtgtcacttt aaacagcatg ctgctttgtt aagttgctgt 180

cagtgttgcc cacctccac ccctcagggg ttagaaaagt tgattttacg tagtgccatg 240
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<210> 117

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848758

<400> 117

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tacaaaaagt ggcaagggtc agagaaaaag atgtttgctc caaggcaccc agggatatact 480
gcttttcaga aaaattcaca gagaacagac taaactagag aattagatat cagtgaaga 540
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<210> 118

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848782

<400> 118

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gaactgggac aactctgtag gtcaggggtc gcctcctgct tggggcagca gaaggctctg 180
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tccatcctct gaactgctgt cactatcttc cttatgttct tccctcctgac ctccctcttt 480
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<210> 119

<211> 595

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848826

<400> 119

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actaatgtta cctcagccag ggtacatgcc acctgtacat agcacactct acataaagta 180
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 agaataatgt ctataaaatc tattgagaat cccaatctgg tcaaagatgt gtcattgggc 360
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 gaaggagctg ggggaggccc tagttagggtg tccccagaga ccgtagtggt tcagacctga 480
 aggaagaaga gaggcaggat ttgaagggtc aaatcccagt ggatctggga ggcgggttagg 540
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<210> 120

<211> 401

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA849222

<400> 120

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 cctgttcctg ggaggaggct cctcggacac tggacagagc tgagcttggg acaccagaga 240
 gaacagggca cccttctgca ctggcttcca gaaaacgggc ctccccgagg acaccagtg 300
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<210> 121

<211> 268

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA849365

<400> 121

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 ctggatcttg atccctgagg gaggcttgag gttctgaaca tggatggcag atcacaacca 180
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<210> 122

<211> 395

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA849426

<400> 122

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 atgctaaagg cctgctgctc atccagttgt cggccctgct tttaacaggg tctgttgtcc 180
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<210> 123
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 <212> DNA
 <213> Rattus norvegicus

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 <223> n = a or c or g or t

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 gttaactccc ttggttctag gaccagcata tcttaatctt tcaacgaagc agatgatatg 180
 gaagtcctct ggagactgaa gccacttgcc tagtctcttg agcaaagtaa cagacactgc 240
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 <211> 501
 <212> DNA
 <213> Rattus norvegicus

<220>
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<210> 125
 <211> 582
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA849796

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 tcaaagtcca gagttaggat gccagggctg aggcgctgcc tccgacttaa ctgctaaatc 180
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 tttttcaacc tgggacagac tgcaacactc gtgccacacc ccatatgaca aaaagctgga 540
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<210> 126

<211> 196

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA849898

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 atttctggac acacggaaac caaaggagga gcctggggac aaaaccatt cgggggacaa 180
 ggaggagcgc ccccc 196

<210> 127

<211> 504

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA849917

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 gggagcctcg gagtttctact tactgggtcac agttcgctat gatgccatca tcagtgtaaa 480
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<210> 128

<211> 513

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA850038

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<210> 129

<211> 419
 <212> DNA
 <213> *Rattus norvegicus*

<220>
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 ctgaccaagg agtaactcta ttgcctttca aaaagccctt ggaagggtag cctcaatcca 180
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 tacgttttag aaatggaata aagtaccaat ctcagtttaa atactaaaat agaaataaaa 360
 aacaaaaaaa caggctttta cgttattact tgggatgtct cgttacaccc ttcctaggt 419

<210> 130
 <211> 492
 <212> DNA
 <213> *Rattus norvegicus*

<220>
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<210> 131
 <211> 617
 <212> DNA
 <213> *Rattus norvegicus*

<220>
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 aaaaaatata ttgcaagtta gatctaaaaa aggaaatcta aattgcctca tagagaaagc 180
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<210> 132
 <211> 531

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA850618

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tacagcagca cggcaggctc cccgcagatc tggctaccaa agagacatcg agcctggacc 480
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<210> 133
<211> 580
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA850738

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<210> 134
<211> 438
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA851050

<400> 134
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atgagcgtcg cagttctggg catgctggc ctctcccgcc ctagcttgct agtttttatat 180
gatggtaagt ctccatctat aaatatgcaa gtgtacagaa tacatgtgtg cttttcgacc 240
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gtgatgttta aatggtttgc attattttca tgaaatgaag tgcgttaagg ttaggagact 360
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gggcccttcc ttctgagt 438

<210> 135
<211> 494
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851233

<400> 135

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cattgtaagt ttatagttaa aactacggat gaacatttca gtgcaccaca attccaaact 120
gcaacgaaga cggtaggtac tcggggatcc agctgaggag agatgggtca ctgcagctgt 180
actctgtaag cacctattag caacttcacc ttggcaaagg gtgcttccgt caaccttata 240
aacaacttat tggggccagc aacagggctg aatgaataaa caaagtgact gtccagaaaa 300
acaggtagct ggaatttatc atttagcacc acggcttgca cactgcatgg tccacaaagc 360
cgagcaatga catctttacc caagaagttt gcattggaaa tgaagaggag gacaccagat 420
ccttcaggca tgttctgagg gggcattgta ttgaaatctg ttgagaaatc gggccactca 480
cagagccgat gaca 494
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<210> 136

<211> 719

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851329

<400> 136

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aaaggaatat aaaactatct attgaccact gtccaccatt atttacaata aagtaaatat 60
acagttggat gacattctga cactacaaag ttctttttct ggctaattga accagaatgc 120
aaatactgaa aagattgatc ctaccggtaa ggaatgagtc agggtaaagg aaaggcatgc 180
agggcactaa ttgatattag caaattttgt tctcactt agtcagcagg tcttaaatcg 240
ccaacatcag ctccaacct gattctatct ccacatcaaa cagattccat gaatcataac 300
cttttagtac agatttttaac gtcctacaaa ggaatgggtc accagaggaa cctttacaca 360
gacctactga cctagacctg cctctgtaga ccaggggcct cttaaatcag agctctatct 420
gcctccagag ttctgggatt aaagggtgcac accaccatac tcggccaagt cttgctatta 480
aatcatacta ctatgttgct taattccatt tctgaaagg gtgttggtat ggacaacatt 540
ctgtaaataa actatccaat aaattacaga ctctgcttat tctgaaagg tatggtttca 600
ggagaacatt caggtgatg gaatctcatc aacttgctt ttcacattca gttcttttga 660
gtattaaaaa aaagataaaa cagacagggt atgtaagtgt tttatgcata cactgcata 719
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<210> 137

<211> 574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851343

<400> 137

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ggggtaaaac atttattgct cctctaggta atgtcaggta tgacatatga catgggttaag 60
tctctcagtg ggaatggaca ccaagggtgac acatgcagca agtccataga cagggtctct 120
agcacatgat ggctctctct atgacctgct ctttgaccct agtccaaca agggcttgac 180
aggccactgg aagcatggac ctaacctgct gcatgccatc tccacaggat gccgcctaac 240
ctcagggtgac agcacatcag gagctcacgg gcgcgctcac acgggcacgc tcacacaggg 300
cctgtgcagc acaagattat ggagtcacct cctttgatcc taagctggcc tggctccctc 360
atcagcctca gggagggtata ggaagatgaa tataggccca gctttctgag cttagctcaa 420
ccacagcttc tggctaagct ctggaccacc aggggctgga gccttgacc agggatggga 480
tagtccgttg ctctgtagg tcagctgcac acgcactgcc accatcgagc catggcccaa 540
tgacaggatg gctgtgtcgc cttccttgat cagc 574
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<210> 138
 <211> 545
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA851803

<400> 138
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 ttaaagattt tatagtgttt acaaatttga ttctaaaaat ataccttatt tggtctaaat 120
 gaataacatc tgaaagacag aataataaat atagcagtgc gtcaccact actgccacta 180
 ggcttgtgta cacgcattct gtatggacta ctctgtggat gttcacactc tccgcctgag 240
 aacacagagc atattacact ccagtgtaca agacttcagt ctgacagcat tgctctacaa 300
 gaaagaaaat taaaatgtct acttgacact gcagggaagc atgggcacac gcgcacacag 360
 acacgtgtct gcattttctc tcacactcaa acagaagcac acgcacacca cagaagtcag 420
 aagaatttac ccttgtgtgc cagacaatta acaatttcag aaatgcagag tgagtggaga 480
 gtcggccgat acacttaacc cgtaagtaca tggcaagggg tgtaaatggg gtgcaaagtg 540
 cgctc 545

<210> 139
 <211> 294
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA851814

<400> 139
 aatgagtatc ttatgtacac acacacacca tacaacaagc ttggttccat tataattcca 60
 tcaggcgctc aggtatgttc aatgacctga gatagagttg atgaagcatg gccttttaggt 120
 cacaatgaag tccatcagtg agttgtcagg ctgcagtgtg gggattggga catctgtac 180
 ctggatgatg ttgacttcta ggattccatc tacaattgtg atgggtggctc tgaagtaacc 240
 atatctgttt attcggcagt tttcattgga aatgtcactc agctccatgg attt 294

<210> 140
 <211> 591
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA851953

<400> 140
 aagcataatt aaaatcaatg cagaaaaata ttagctacat tgggtaaaag tagtgattgt 60
 tgcagtattt gcctgtaatc cagtgaagac ggtgtaggaa acagcatcac taaatgaaag 120
 acagaatgga gggatgaactg cgaaggctct gcattgtcta ctggcttcca aaggcattca 180
 gagggctcatc aaaaatgttg gacactttgt tctcagacct taattcagat gctgcctcag 240
 cagattggct tttgggttta gatgctttag cctggaggcc agaggagaaa atatcatctg 300
 tatcatcgtc aaacatggac ttggctgtga ctttcttttt gggcttttct ttgggtttca 360
 cagtcaagtc agcgaagata tcaatattat catcaaataa gttgggttcc aaagtctctc 420
 ccttctctct tttttttgga aaaggcttct taattgcttc cgtagcaaat atatcatcct 480
 caaagatgtc ttgagttttt gacacaacgt cctgatggct gtcagatttc cactgattct 540
 ttttgctttt ctgatctgca aagaggctct cctcatcttc aaggaggggg a 591

<210> 141
 <211> 538
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851961

<400> 141

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ggataaaaaac agtgtagtt taagactggt gggggaacgg tggggctcag atcaaacaaa 60
gacagtaaca ttctcagact cctatccacc catggcctga ccccttcttg tggatatccag 120
cctccaggaa gactagatag ctacactggg gttattgcta ggcattctagg gaggggacat 180
caaccagcct gtgacctcac ttccaactcg ggcacagccc cactttgttg gccagttttt 240
gtcctgtcct taccaaggcc caacgtcatg agcagctctc tccgtgtctc tggagcctgg 300
agtcagtgtg gccgggtattg ggggctgtgt cctgggaggt gagtgaattt gcctgtatca 360
ctcaattcca ctttacattc cctaactaca gaggcagtgt ctcaagtgtg gagccaggaa 420
ctggccctc cagtctgggg atcattagat gaagtactct tccttctctt tgccttggc 480
tgagtcagtc tccatctgga ggatggcgct gggctccct tctgcaggct cataggtg 538
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<210> 142

<211> 538

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851963

<400> 142

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ctccactgca tacatagttg gtgttcaaaa atttcccaa tgtttgttct ggacacaatt 60
gttattagcc aactcgggtga attcaagaca ttgttccaca caatgaacaa tcgcacacat 120
gagaactgca cctagaatgt ccctcctaga atctccatcc atccagtcaa agtgctgagc 180
tcaactgactg aaggaaacat gacctgtgtt ctagaacgta gctggctatg aagtttactc 240
atgtgtaaat tccttaaaaa gattaaattg tttggcccat ttctatatatt cataaaataa 300
ctataattac aaactttcta aaaataattt tacaaccatg taattatgac taaccatata 360
atctaaaaag taagtgaagt cattgtccta gagattgtct gagattattc tgctgagaag 420
cttaacttcaa actcttatca ctacttccta cttccagtgt cttgaatta agaacagaaa 480
ttgtaactat gctattctac atcagattga cacaacctac ttctaagtac actattgc 538
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<210> 143

<211> 432

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851967

<400> 143

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agaatggctg attcaccct gtgacttggg ctggatgtca ctttatgaaa tggtagtttg 60
tcacaggggt gactgctgtt aacagcagca gtcctttgtc agttcgtggg actgctttct 120
tggtggcatg tccaccaggc ctttctctgc tcatctctgt attgctaccg aataggactg 180
gatgcctgta tggagagtgt ttggttggc tgggtttggc ttaaagaaca agcaaaaggg 240
actgagggga ggggacagct gccggtctg ctgtcccaaca ggcattccct tcatgcagat 300
tcgaagggtg ggtctagtgg ttggcgctg cccctcccag tatcccagg ggctccgcta 360
cccaggcgac atagaagcta ccactgaaa aaaaacgcgt cacacgggat ccattttcat 420
atgagccctg gc 432
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<210> 144

<211> 458

<212> DNA

<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA852018

<220>
<221> unsure
<222> (1)..(458)
<223> n = a or c or g or t

<400> 144
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aacccacac tttggctttt ctgatgaggc ttgaactcca ggggtgtggg cattgtgtgc 120
tgagcatgag caaaaccctg agttacagct ccacattaaa gataaaaaca caaactccaa 180
cctcaggaaa aggaatcac agcaatgtgg atgatgtatt gtgtggattt gaatttagca 240
ccatttgaaa ataaggcaag attcttgact ccgagttttg catctgggtt ttgtgggaca 300
cgtgcaggac tccatggctg gtcagcagct ctggcagact cctccacttc aagctgagta 360
gtttttcttg ggacaatgac cttcacttat agcagacctc cctgnngggca tcagccatgg 420
aggagcagat gtctggcttc tctgtncctt ggtacagc 458

<210> 145
<211> 519
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA852027

<400> 145
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tggcccggca aggtcagcct ggcagcccct ttcctacatc cacctggagc tcccatgtgg 120
ctgcagccca ggactgggca gtgggcgttc ctggtggcag ctggtggcag aggtattgag 180
gtggcacata cagctttgtc tctacagaat agttccagta ggggtacagag tccaaatccg 240
tgatgaggaa tataggatga cttggggaca aaggctgatg gtcctgccgg tggcccagct 300
gggacaggct ctaaccagcg ctgccttgac tgttgccctg ggctgcagcc agctggcagg 360
gtggaggggg ttctgagttc taccaacagt cgcgcagccc tcttcgcaga acaggtgtgg 420
gactgcccct ccccggtctg gccttgaggaa ctctgcacat ggggcaactg cagatgaggt 480
cccagagagg acggagctgc tgccgccaat cctgtgggg 519

<210> 146
<211> 481
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA852038

<400> 146
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tgtccgacat ctttgacacg ggaaagagaa gagcacacgt tggttaaggca cctgcagagg 120
agcgaagccc ccccttttgg cttgagactt ctgggtagct gcttgcacgt ctgtcgagca 180
gaaaacaaaag tcatcgaaag tttgctctca cccaggcttg aggtgacgat tttggagcct 240
gctacagtgt ggcttttcgg gtgaggtgag tgggcctaca ccgaggcaag gctgaagagg 300
cacctctcca cacagctcac agaatcctcc cagacaccag gctgagcctc cagccgcttt 360
tcagctttga agagaaccaa ctttaatccc acccaggcac atgcttttaa atttctcagc 420
ccaaacttct attttcaaaa cgtaaaaaatg caggaaaacc tcaagtacag tcagacctta 480
c 481

<210> 147
<211> 453

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858448

<400> 147
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ccgagcacat gattggatgg gctaggtcta cattacatgc tacgaagccg aacacgacag 120
cagtttaacg tggaatgtca aacacattag tttctcattg tacaaaaact cttttctgta 180
gctgacgcgc aagagggaac cacatgataa ctgcacattt caatcatctg tgatgagttt 240
tgtttttgtt ttttttttaa aaaagtcatt tgaagaaact ggtgtcttta gcatacagtt 300
caaataaatt agttacatgt gcactggtga aacctccctc gcccttagt gtttcaaaca 360
aagtcttagt gcaaacatcc aagttgctcg tcaatctaaa agactgttaa actcagaata 420
caagttctga gttatgtgta gttaagtagg aca 453

<210> 148
<211> 522
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858548

<400> 148
cggccgaaat tgttttatth ttttggtttt ttttttgacc actcagacac ggatttaata 60
attgtagaaa tccaaagaat aagcatcaaa tctcgaagtc agagtgaact cttgcctgcg 120
ggttggtctg actacgcca gccactgagc tgcccaacc agccagggat ctatgaggct 180
gacttctgtt ttcattgatg caccatatgt agtatgtatt ttgtctcaat aaagcatttg 240
taccgatggc tctggagctt ggagggaagc taaaggaatg tgtagtgatt ctgagtaagg 300
tgtggacctt cagggcagaa ctatctgggg gagggaaaaa caaaggcctt tcttcccggtg 360
tcaggacagt cttgagtggc tgaactaagc acatgggcca ctggggctac actgtctgaa 420
ctccgacagg tctgtctctt ctaggagag cttgcagttg ggagttttag cagataagca 480
ccgaaacagg tttccgattc cttcctgcag ctgttggtgc tc 522

<210> 149
<211> 454
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858573

<400> 149
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aatctccagg atgtcactca aagccagaat tgactcttgc tctgcgttgg aggttcagga 180
accttctatg ggcaggagga tgtccctctc tcgtgatctc tttgggttca tcataaagaa 240
agccaagtag ataatcattt cttcgtcggg gggatcttgc catgtcccca aaaatcatca 300
cagagtagcc cttttggaag gcgcagggtg agggatcacc agactctctt aggcattgag 360
tttctgaac ggtgaactct aagttcatga ccagtgtgtc ttcattccagg acattaactc 420
tcttcaggga gtcctgcgtc gcccgaaaca ggta 454

<210> 150
<211> 472
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA858588

<400> 150

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ctatgatccc caaaagtgtg cttgtgattt cagcaactta caaaggggag aggaaatact 180
gagaaaggcc actatttaat aatgaaggag tgaagggtgc tctaaactgg gctccaaatc 240
tccgtggtgg ttgtcattgt tacctccctt tgtatcatca agttgggtgc cttttctgag 300
ccttatatct ggctctggag tcttgggtgca ccccaatcgg tggtcgggtg gctcgttcat 360
gggataccaa agccttcctt acaaagtggg ctttctttct gtcccttctt cttggggagaa 420
tggatttcta agggatgggt agttgaccct ctttccgacc caggcaatct gt 472
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<210> 151

<211> 354

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA858704

<400> 151

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actgtacaca acctagtcgt gggacacata agccagttag gtgaatggag cagtctggcg 180
cgcccccagg agccaggatt ccagccgagt tttgtcactg tgttcatcta agctgttttt 240
ttccttttct tttttaaaat cttttttgtt ttttttagat ttagtttttt ttcatttttt 300
gatacttggc acagtctggc tccaccgatg ggcattgagca gatccctcgt gccg 354
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<210> 152

<211> 526

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA858716

<400> 152

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tggtttctct ttatacagaa agtgggaacat ttcaaataa ttagcttttc tcttttttoga 120
cagaattcgt ttcagtctgg tcccaggaa tgccttctcat gttaggattc acgtttcagt 180
aacacgtatg cgcccatcac agccaaaaga gcgtacttga acttaggata gtcgttcatt 240
ataatggtga ccatgccaac atatggtaag aaccctcgag ctcttcctac cagctccttc 300
ttctccagcc agttctggcc ttctttgtac aagcctcgat catcaacttc attagtatct 360
cctttagtca gaaacttgat gtctccatta tctttttcat gaaccttgat tactctgtga 420
actatcgga tgtctcttcc ttcaacttta aaaacaacta tttcaccagc tctgatggga 480
tcctcccgga aatttgtgag gaacagcaga tctccctgt gaaagg 526
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<210> 153

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA858758

<220>

<221> unsure

<222> (1)..(539)
<223> n = a or c or g or t

<400> 153
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catccttttt atctccccc aaattccac cctagtccaa aaagaaataa gaagaaggag 120
aataatagaa attggaccag ttcttaagtt tcttcttcca tgtttcttgg aaaacagtgt 180
gtagtcaatt cttcttcate cgtggcttca ctgtggcacc ccatttccag tgattgatct 240
tctctccaaa caggtagagg ctggcactca ggatgtaact ggctgagaag aagagaataa 300
taccagcgg gctgagggag gcaaacacgg ggtacacca gtttccggtc tgaacgtagc 360
gccaaaggat cctgataatg taagcaaat tacaggcacc cagcangctg agtcctagct 420
tcttcgatgg atagttgtgt ggtctgagaa cggtttcagc cagggaaaag ggaaatatgg 480
aggatgcat tgcgtgatta aacctgctg gaaagaaatc atccaagccc ttggggtaa 539

<210> 154
<211> 554
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858760

<220>
<221> unsure
<222> (1)..(554)
<223> n = a or c or g or t

<400> 154
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acctgtgcac ggtgatgccg gggtattcgg cctggagaga agggttattt attttttttt 180
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ccaaaaatat tttaaaatat aacaaaagag ttcgaataac tctgaggtta tgggaaactc 300
aatccatgg acaatttggg tagctcaaca gaatatgggt ggcaggaact gctctattat 360
cagcactttg aagatcagca natttgaaaa tcttaaaaata ccctttcaat tttttaaact 420
taagaataag tttgataaac ataaaaagac ctcaaataga tcaacagata aatgcaaaaa 480
ccaaaaatcc aaattcatgg agaagattca tcagagtatc attgctaaag ttattgaatg 540
actgaaaatc cttt 554

<210> 155
<211> 384
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858852

<400> 155
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gccttccttc tctacctccc tctccctcct tcccttcaaa ctgcaagcat caggcaagta 120
gaaatccagg caggttatga acaggactgg aactgcccc cctgacatct ccagggaagg 180
cttaatgcc cctccattat cttgtgcctc tgtgaaatct gtcagtgagg atcttgtact 240
tctgtgttac ttcataatc ctggcagcca ggcttatccc agagttgttg ctgctccaac 300
agttcggctc tccttcctgc ttccttgctg cttccatagc ttcagcagag gtgtctgcaa 360
tctccatgac tgctttcaac aatt 384

<210> 156
<211> 467

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858910

<400> 156
tttttttttt tttttttcca gttgccgttg ctggttttta tgaggttttt tttggccaca 60
gatgagggag ggtggacagc ctctggtgtg aggggacagg agaccaatc cagacagtgc 120
tcaagacata catctgaaaa agccaccccc cattagaagg aatcactgcc aaatacttct 180
ctgtacacac acttcaatga cacagtggct ttccccagaa cacagcattc acattaccga 240
aagcagcaaa attcacttta aaaaacaaac aaacaaacaa aaaacaagaa acaaacgaca 300
acaacaaaaac caacaacaga aaaaacgaaa cagaaaccag aagtgagaat cacaaaaata 360
aataagtcag cacattcttg gtctgtctgg cctgagaaac agacatatcc atcatagtct 420
ggttatcagg aacagcttca aggctcaggt ctctgaggtc cccttga 467

<210> 157
<211> 507
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858926

<400> 157
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attaatttcc tataaggaag gctttgtgca gggctctact gcccagatg tggctctgga 120
ttgagcagga gccctgcccg gcgttggttg ggtctcctct cctgtggaga agctccaact 180
tcagaagagt gtttgagcca tacagagatg atagggggaa atctccttgg tgatagaaaa 240
taaccaaaagc tcggaaccac ccgaaggcg ttacagttg ggatgtggga gattcatggc 300
actgccattg cattctgaag caaacagcct taaactctg cagtgactgc taaactccac 360
cttctggctg gagagaggtt tgcttagcat cctaaaagca atgccaaaaa gctctttctc 420
agagcttttt ttggggggcg gcacatgggg gcatcattct gccgcactgt gcctggcctt 480
ccctggcgct acgtactggg ggacact 507

<210> 158
<211> 511
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858953

<400> 158
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ccatcggaac acacgacatg catttggggg agagcaactg tgcactgcag ccgctgtaaa 120
cctgctgagt gtgcgagcag cgcagacggc acccacggaa aaggcaggga tgacttagct 180
gtctacggtg gctaagtgca aagtcttttg gaacagattt actttttgtt actcaggaat 240
tacatcaaag aggaaagccc taactgcccc cgttctttaa actaaaggct aaggggggtg 300
gaatcatttg ataaccacc atccaaatca cgttcattgc aaactgtaat ccaattcccc 360
ttcattaagt tttccctgtc aaccataacc cctcaggatt atacacactg tatgagttca 420
gaaaagatta atgtgaatgt aaggggtatg tattcgactc cagcatcttt gtcacatagc 480
caatttcttt taaatgtctg ctataacaga t 511

<210> 159
<211> 353
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859085

<400> 159

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gaaataattg aaaatacaga aatattttgt tagtacaag acattacctc aactgtcctc 120
ttagtgaaaa ctgaatatgg tctgcgtgat ctattagggc aatagtaaaa ataaatgtct 180
gtgttacata agagctttgc ataaaaatcc ctgtattgtg tgtaatgtat gatatcgtgt 240
acgcgatgtg tgatataaaa gttagcaaaa tgaaaaataa aacagccttt gtggattagg 300
cagaaaaata tcaaaccga tgccttttcc ttatttcagt gacacgtggg aag 353
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<210> 160

<211> 376

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859130

<400> 160

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gtccttaaat aaagtgttca cagagtaaaa atcagaacta ccagtccttc cctccaacac 180
aacagagcac aggcacagaa ccgatagtcg atgagcccaa ggagtaagga ggaggctgga 240
gaggacagca gaggctaaaa gaaaaggaca aaactcagtc tcgggtccaa gggctcagaa 300
cagtcctaagt gggcagggtc cggttgactg ctagtcccgc ttggccttct tcttgtcact 360
gttgccattc tcttca 376
```

<210> 161

<211> 581

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859150

<400> 161

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taattttaag ttttagtata gactaaagca tccaaaatac tgtggtacgt atgtagctac 180
gaacatacaa acacgttgat gcacagcgtc cgttctatatt aaataggcag tcagcatttc 240
aattcataaa agaacacatg aggaggctgt atcattaccg atggcagaaa acgcaagacc 300
agcggctctgt acacaaaatg tgtgagacag atgtgtcaag gtggaatgta caaaatcttc 360
aaagaaacga caaggaaaca gacaaccctc attctcatag gcagcctcag aaggccgcag 420
tcaggaaatga taagaaagaa cgttagcaag ggacgcttcg ttgatagcca aacgccccat 480
gttgtaaagc aaaagcattg aggttaaagc tgtgttgctt ttgaaaagta atggaagtgc 540
cgtacattca ttggaacaag atagctgatt attagtctct t 581
```

<210> 162

<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859230

<400> 162

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tttcaaatac tctttcacaa ctgagatttt attggtcgag gagtagagta cacagacatt 120
ccaattctta acacacgtac ccaaactctg aagagccgta gtgttcatgt accctaattc 180
tgaagagcct taatagtgtt cacgtaccca aacgaagagc tacatattgt ttttctgtga 240
acttattcca gtgatgtctc agcctcaaac ttggccagtt tccttacgac ctctcataac 300
aaccgaatgc tcacaatgct cagttccacc aattcacaat tttatgtcac acacagaaca 360
tactcaaaat caccatcttt cacagcacat tatcacaact gttaggaaaa tggactgcca 420
tgaccacaga catcacagtt ctgacagggc gaggaccaa gactggcttt cttacaaaat 480
ggttctacta gaaacacggg accagatata actgaaaata ttccagacac gaatgcatga 540
ctgagacccc aaattgccat ttagtatgct ttgtactgta ggatataaaa ctagccccct 600
ctacgg                                         606

```

<210> 163

<211> 550

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859241

<400> 163

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cggcagcaaa gggttttttgg cctttttttt caagttcaac aggtctttat tgaatgtcat 60
agttcaagag gcaaactctgg acacactggg atcagtgagc ttgaaacagg atcactgatg 120
cattgggtgat gataattcct agcaaagtgt attgattttt acttgatttc caagtagctc 180
tcaggcatct aacctgtgaa acagtgactg tttacataca gggatgcaag gggacataag 240
aatcagagca gaaaggaaac aacataaggt acttcacgaa aataatgttc caagaactga 300
aaagcctcga aggtgtacaa gaatccagta ataacaaact catgttcaag caggattaga 360
aacacagcgt taaaactgga ctcagtgccg tgtcttcacg tgcaaacctg ccaacactga 420
agaggatcat ccatttttcc tgtgactagt caatacatta cgaagttctt ttgcaaatca 480
ctctgctgac aagtaacaaa actgcactga aagcctttac tagtcctctt cccctccctt 540
tctcccgtgt                                     550

```

<210> 164

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859327

<400> 164

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tttttttttt tttttttaaa ccaactttgt gatctttatt gacgggtgac aactttatac 60
tccgaggaag cactacactg tgtataacag ggacatggca tcagaggtgt ggcagactcc 120
acagcagaca ccggcaagtg tccgtccctc tgcccactgt tcatgtgcac acagaacatg 180
aatgcgattt gaaatctggt cacggtgata aagttacaat ccgccagcca cctctgcagc 240
ctgacgtcta ccacatgtc tgaccgcga tgtctatgtc agcagtttcc ctcttgcaat 300
catttaaaat tcgtttcctg ttaggaacca gcaacatatt tttttttata tttatctcct 360
tttgaagtaa gagctatctc atctctgata actggctcat ttttgtcatt tatcaaaaac 420
taaagggtaa aggaagaaag tgtgatgaat taaaaaaatt atttttttta ggaaagataa 480
aattcatttt cacaaattta caagagctgc tgggtgcggga cttattccac tacgcatcaa 540
actgggaccc agtgcgagcc acc                                         563

```

<210> 165

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859341

<400> 165

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tttttttttt ttttttttaa aaggtcaaaa actttattta gtcttttaggg aaatacaaga 60
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aagacagatc atttttacag accaaagagt cccaccaaag tgataaagga cccccggaaa 180
ggggcaggtc aagggggctg ggtccctccc ccggtgacac tgtgttggtt gtgatgagac 240
ttataaaaaa caaccacta ttagaactat gagaaacacg gagatagttt agcaccaccc 300
aggatcctgg agatatgtta gcacttacgt ggacccttac tgcattccat gtccttgtct 360
ccgtttctct gctgaggtgg ggaggggaga agctggggga aggactcctg ctgaccacgg 420
taagctggct ggggataagt ggacactagg aagtccctgt gatttaggtg agtcccgggtg 480
tcatttacct gcttggttctt accacatggc agcagcggcc actcacatct gccttagaag 540
ttacctgggt aactgg                                     556
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<210> 166

<211> 255

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859342

<400> 166

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ggcatgtggc atttcccacc ctactcgggc cttgatcttc taacttgctg tccttaaagc 120
tcttgcatg agttttggcc taaaatattt tttcaaaata aagtctaata agctgatccg 180
cgagtaagcc gctaagcata tccacaggtg agtcaatcac cctgagcaat taattgcaaa 240
ggggttcttg gcaca                                     255
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<210> 167

<211> 558

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859348

<400> 167

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aggagctggg tcagattttg acagagggta tgggaaggga aaggggagaa gaaatcgaca 180
tttattttat tatttatattt aaatgtttac atttctttgt gttgttccaa gcctgaatag 240
aaacagatag cattaaagga ctctgttccc accccttctc tgtctctctc tccccactt 300
gtgctaactt aggataacac tctctatttc gttttgtttc taaagtgatt tgtggacttg 360
tgccgtgtga actgcattaa aaaggttctg ttttcaaaga tcgattgtcg ttccctgtggg 420
gacagtggct cctaagaaat ctgcattgta ggagaagaca atgaaagacc ctggccctgt 480
ctctcaaaac ttaactctct gtatgattta aaaaaaatt ccatttactt tactttgttg 540
ttacttgatt ttgaggaa                                     558
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<210> 168

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859350

<400> 168

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tttttttttt ttttttttga acaataaacac tttattttcc taacacacat ataaaaggaa 60
ataatctgca aatttacaga caaaaccata tatatacata tatagggtgca cacacacaca 120
cacacacaca ctctctctct ctctctctct ctctctctct ctctctctct ctctcacaga 180
tacataacctc acaagctctt gccagggtcag cctttcatct aagcaccatt ctcccacttg 240
ggctctcttta ggacctgggc cccagagctc acatgtaaaa atttggtact aacataccat 300
aaccatgaa cagtagacct ctctgtttctg tctctgtctt ttccattccc attaccact 360
aaggaaatgc aggaagcttg ggctcagtag ccttcaaaaa acacaaaaac aacgacaaaa 420
atcagaaaca gtgcccagct tccttactca gggatgtatc tgaggactca cgccacctcc 480
tgactttctgc ccaaagggaag agcgttccaa atgag 515

```

<210> 169

<211> 561

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859362

<400> 169

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tttttttttt ttttttttga acttatacaa tcgctttatt ttctgtcccc ctccccgaaa 60
tgtaacaaca ttaaagccat tccaacgtag atctatttct acggctcctt gcataatctca 120
ttgtagctga agttagatgt ttcagtaacg aaatgaagggt tatctcatca aaatgggtggc 180
acatctcaaaa gacgggtttc ttgttcctgt aactctctgc ctatccctca aaacctaataa 240
ccccctacgg tccagagcta acaggaagac agccacattc ttcggggaag aagggaacagc 300
cgaagggggcg gggccgggag aaggacaagg aattggggca gaggagacct tcacttccac 360
tttctcagca ggaggagggtg gtttctgaga aacaggctta gagtcggcct ccctgcggat 420
cacttgaatg gggatgtgtc caggagggag atctgggtcca gctaggcctg gcttgctttc 480
tggtttgttt tcgggttggtg tgacagggggg aggtctctcga tgggtcatgg gctgaggcct 540
gtcaaccact gtgtgcacac g 561

```

<210> 170

<211> 548

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859536

<400> 170

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tattttccat tttccaatgg gtgggtgtgtt ggtgtctgag acacagggtg aagaaactgg 180
agctgcaatg aaggcagact tttttatttt tcatttccac tgaccaataa acagaactac 240
aggtgcaccc aaccacggac atgcattaac tcgtcatgag aaatctagggt aggctaagta 300
tgatgagaga atgtttgtca ctccccaaaa tatctggaga ggaagaatgt agggttggca 360
ttgagatata atgtggacaa gctaagtggg ctccgtctga aagttggcat tcatccacaa 420
acgttaaaaa aataccaaaa taagaaaagg ctgtaaatta ataaggaaac acagaaaata 480
ctgctttcat aaagatctga ttgccttggc actggccctg tgggcagaat caaacgcctc 540
cctcccca 548

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<210> 171

<211> 533

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859585

<220>
 <221> unsure
 <222> (1)..(533)
 <223> n = a or c or g or t

<400> 171
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 aggggctggg tagaagagtc ctggagtttc ccataatcct tgcagggaaa cagcaatgct 180
 ggcagataag gaggtggagt gaggcagggc ccttcaaaca acagggtggc gggccaaggg 240
 gcttggggct cactctaaca tgcaaagtcc agctgcccc aactactagggt tgcttttgaa 300
 gagcgacata cgtataaata cataagacac agctacacgc acacatgcgg agaaggctct 360
 gcattcccaa gggtanggat ctaggcctac tggccccaag acaggagtca tcatgtgtct 420
 gccaccaagt gattctctga aacactccag gtgggtggggc caggcaggta agtcttcgtt 480
 gggatggctg cttggtctcc aagggtgctgc ccactaggca cccaagccac ttt 533

<210> 172
 <211> 400
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA859633

<400> 172
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 aagtcttctc caacagcgag aaaaatgtac agttactcaa agctgattct gccagtgggg 120
 ctggggacag aagtgggcag ggtagggtga aaccacagag ggggatggag ggtgggaggg 180
 tcagggtcct gctgtcaga gtagggccgc ctgctgctc cactctgctg tcagggtgggt 240
 gggaatgatg aagggttggg ggtaaggagg atgggctcca cactgctcat tccccactg 300
 tcatgtgtct gaagggcagg ctgcacaagg tggctgtcag tttgtctctg aggaagtctg 360
 ctctcttggg gaaggacagg tgtcagcagt ctgaaggagg 400

<210> 173
 <211> 545
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA859645

<400> 173
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 tgcgttggtc ttccacatcc tgggattaca aaagtgtact accttgcata gcttccaaca 120
 tgttttttaa agtgctctga aactttcttc accagaatat tttctctgag tgtatgtgag 180
 tgaagttata catatgtaca catgcataca gaagccagag gtcattgaatg tcttccctcag 240
 ttactctcta tcttattttt tgagacaggg tgtctaactg aatctagagc tcacagatgc 300
 agcttctggc tggccagcaa gcccaggga tcttgatgct tcctgcttcc cagtctggag 360
 tggcaggcac acactgcatt tcccgttttt tatgacagtg ctgagagtgc aaatccagg 420
 ccttggtgctt gggtagcaat cgctccatct actgagatc tctccgacct ataaccacac 480
 tctgcgcta ctcacagtct catggcaaag gcaaagaaca ccggatcttt ccgtcaacac 540
 agatt 545

<210> 174
 <211> 283
 <212> DNA
 <213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA859648

<400> 174
tttttttttt ttttttttgcg acttttgaaag attgtaatat atttctgtgga aaacatttcgg 60
cagagcaaaa gccctccctg ggccctcccg cagtatgcaa ccagtggaaac ggtctggaaa 120
tctgcagctc tggaaaggct cctggctcag tccttgagga atgcaggcag ctatatggga 180
agaacctgct ccaggatggt tctggatgag atggggatcc tatcaggga gatgacttca 240
aattcgataa caaggtctcc acgtttctca ggtgttttgg gga 283

<210> 175
<211> 483
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA859700

<220>
<221> unsure
<222> (1) .. (483)
<223> n = a or c or g or t

<400> 175
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tcagctgttc gattctgtgc ccaggacagc aattgctgcc tggcgccac tctctataca 120
gtcattgaca gctacccct cataggaggc cccagccaaa gtcaggggca acctctgggc 180
cgtcaggaat tgcagagctg agtctagttt ttgccagtgg cctagtgtat actgagggat 240
acagtttttg tgtagatgga ccaagcaatg gcttggttgc tctttcagtc ctaactgtgt 300
ggcagccgct tctgtgctg ctctgttgga tagctctgga gacaattcat ggccattggc 360
tttcagcttc tgtaaccagt aacctccaa catcacagtc agtctgaggc ctgnnggggtt 420
cccatcctgc tcaggaaaag caaccgagtc atacacgatt cccaggacgg tcgggtcttc 480
tga 483

<210> 176
<211> 477
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA859722

<400> 176
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agaagagggg caccagagaa ttcttttttt ttttcattta ataaatacaa atgaataaaa 120
atactttggt ttgtacagag accgcctctc ctctcttcct cccccgcttg cttgccagga 180
agggctgagg atggcaacat gccctgtggc cgctctgcat gggcatctcc ccacacagac 240
cgcttctcac agagagggct tcatctcagt ggcctacaat actatttcgg tacaatcccc 300
tcctcctgca cctaccaaca ccagactctt gcctttcaaa cagaccgact cccctgggag 360
aaggaaagca caggccccca cagggtgccc cctggagccc catagctggg gactcgtgac 420
accatgggac atgcacgctg gccactgaca tgtgggcacg ggacagaagc agacagt 477

<210> 177
<211> 503
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859837

<400> 177

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atggaacgac ctgctttcca cccacataaa cctcctcaat gtttcggtca tctcctagat 180
agaggaactt ctggataaca gcctcagaaa tatcaccacg gaaatcccca caaacagat 240
caatgggaga gtccgatgct ctgggggttga tcaagagggc atcaaaatcc ttgccgacct 300
caaagtttcc aatttcacga tcaagcccca gggcttggct tcctccaaga gtggctagtc 360
tgaagacttc tttgaggggtg aggcctttct cattcacctt attaattaag aggacgttgg 420
aaaccatcac tgctcttcgg atggcgtcaa gcatggaata ggagtaacca ccagccacat 480
ctgtcccaag ccctatcttc act 503
```

<210> 178

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859933

<400> 178

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tagaagcaat gacaaaaata accacttaaa ataggggatt cttcccccca gtttcttgta 180
agcgtaaagtc caggcattcc actcttccac tcagaaaaga aaaataaaaag gctttggagc 240
acaccaacct ttactcagat ggacaaaaca tctgcctcca gttctcacgt tagaccagga 300
cgcatatcca gagtggctgg tctccatcca gcccatgctt gctaaagcag ccgagtaaat 360
cccaaggtca gtcccaaccc caaccttcaa cagtatgaac tgcttacacc tcttatgaca 420
caagccatgc ttgggcggaa gggtcgggtc agacaccct catctcccgt gggtgatca 480
caacagcagt catgtttgtg ttctcttccc tacagttcag tgtgcaaagc catt 534
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<210> 179

<211> 380

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859938

<400> 179

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tgttttgcct tctttttttt tttttttttt tttttttttc cttttttttg gtttgttttc 120
attttataaa ctcaagctca gggaagcttg tttttgtcct ggaaaacaaa acaaagacta 180
aacaagctt tcatagtatt atttgcaaac ctgacctcat ttagaaagag atgtaattgc 240
atggctagaa cacagcttct agcatgaatg atgcaggtgt gactagtggg actaagagga 300
gacgatgcac tgttgacaag attataatct gctgggtggcg ttgctgaaaa aaaaaaaaaa 360
aaacctttgc cctcgtgccg 380
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<210> 180

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859971

<400> 180

<222> (1)..(417)
<223> n = a or c or g or t

<400> 183
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ggggcttgga atacagaggg gaggtgcaga ctgcattcag tggagaaagg ggaagcccag 180
ggggagctga aactgagtag ggtcttatga gaactggtag caaggagcct gggtaaggcc 240
tctggcaagc aggtccccta agtctgtcaa gatgctgtgt atggggttca gaaggacagc 300
accctaaaac agagaacaaa cttgccctac tttgcttcct accttgggtc ctatatgcat 360
tcatgaccct gaatcccatt gctgttaacc tctgaggtct aattccttan ggactgg 417

<210> 184
<211> 308
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA866240

<400> 184
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acaaggggatc aaaaattggt atatgaaaa aataatacaa gtggatttgt gcaaaaaccc 120
caaaaactgc aagtgccttc gggatcttaa aacaaaattc aggatgggtg ataaagggaa 180
gggactgggt aaaaacctga aggggatttc aaaagggaac acatttaaac ccaaaatgcc 240
cgatttattc aggaaggaat gaaccaaacc tggaaaatgg gtggcaaaaa ggcaaaacca 300
ttcaaaac 308

<210> 185
<211> 493
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA866276

<400> 185
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gaaaattaaa aaaaaataaa atatatatat atacatttat atatatatat ataccaagta 180
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<210> 186
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<220>
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<210> 187

<211> 301

<212> DNA

<213> Rattus norvegicus

<220>

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gagacatcgg aggcaagcac aaatcttcaa ctccagggaa atttattcgt ccagccatat 240
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<210> 188

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA866454

<220>

<221> unsure

<222> (1)..(534)

<223> n = a or c or g or t

<400> 188

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cagcggaggt atcacctgnc gggcgcaggc atgcgatcgt gaccgttccc tccaacttag 480
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<210> 189

<211> 504

<212> DNA

<213> Rattus norvegicus

<220>

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<400> 189

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<210> 190

<211> 536

<212> DNA

<213> Rattus norvegicus

<220>

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<210> 191

<211> 443

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA874941

<400> 191

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tctgctcctg tgtggtccga gcaggcttca tcaactgttc cctcaaggca tgttcttgtg 360
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<210> 192

<211> 516

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<213> Rattus norvegicus

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tggctcaaga tatgttgggt ttttccttct tcttcagatg atggatagat gcagccaaaa 180

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gagaacgccc agaggagccc acgttggtgg cactaggcgt tggaccggc atgctgatgt 480
ctaagaacag taggcacaag agatatgaag atgaaa 516

<210> 193

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875032

<400> 193

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<210> 194

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<212> DNA

<213> Rattus norvegicus

<220>

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<210> 195

<211> 549

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875047

<400> 195

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cagataaagg atttgtcggtt attaatcaaa aggggattga ccccttctct ttagatgccc 180
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549

<210> 196

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875050

<400> 196

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ccaagatga cagctgaatt ggcttcctgc tggcttggag ctcagcacct ctcactgggg 540
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547

<210> 197

<211> 335

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875097

<400> 197

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aaaaagttca caagatccgt gacaccttcc tcttctgac attcttctcg gctaaccaag 180
caaagaaagc agagccccca ctttccattc cttcagctac tgtcccacca gcggtctgat 240
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335

<210> 198

<211> 569

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875126

<400> 198

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gctacaatgg ctgcggttca ttctattcag atgtcagaca ataggcacag ctgggttcct 180
tattcaaaat ctgaaggagt ctgggaggag gacaaacaca tagatagaat caagcttagg 240
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Figure 1 consists of 12 sub-graphs, labeled (a) through (l), each showing a time course of a different physiological parameter. The x-axis for all graphs represents time, with a baseline period followed by a 10-minute intervention period. The y-axis represents the value of the parameter. The parameters are: (a) Heart rate (b/min), (b) Systolic blood pressure (mmHg), (c) Diastolic blood pressure (mmHg), (d) Mean arterial pressure (mmHg), (e) Stroke volume (L/min), (f) Cardiac output (L/min), (g) Systemic vascular resistance (mmHg/L/min), (h) Pulmonary artery pressure (mmHg), (i) Pulmonary artery flow (L/min), (j) Pulmonary artery resistance (mmHg/L/min), (k) Pulmonary artery pressure (mmHg), and (l) Pulmonary artery flow (L/min). The graphs show that during the 10-minute intervention, most parameters (a, b, c, d, e, f, g, h, i, j, k, l) decrease or stabilize at a lower level compared to the baseline. Specifically, heart rate (a) decreases from approximately 100 to 80 b/min. Systolic blood pressure (b) decreases from approximately 120 to 100 mmHg. Diastolic blood pressure (c) decreases from approximately 80 to 60 mmHg. Mean arterial pressure (d) decreases from approximately 90 to 70 mmHg. Stroke volume (e) decreases from approximately 100 to 80 L/min. Cardiac output (f) decreases from approximately 10 to 8 L/min. Systemic vascular resistance (g) increases from approximately 15 to 20 mmHg/L/min. Pulmonary artery pressure (h) decreases from approximately 25 to 20 mmHg. Pulmonary artery flow (i) decreases from approximately 5 to 4 L/min. Pulmonary artery resistance (j) increases from approximately 15 to 20 mmHg/L/min. Pulmonary artery pressure (k) decreases from approximately 25 to 20 mmHg. Pulmonary artery flow (l) decreases from approximately 5 to 4 L/min.

<211> 438

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AA875225

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| atgtgaaaaa | agcaaggaag | tgttcaacgc | tggaggtccc | gggcctgggg | cgaaggcgtg | 120 |
| aggggcctga | ccctcagcag | gcagcggcgg | ttcctagatt | agcgctaagg | agctacattt | 180 |
| aggттаатgg | agcctgggcc | caaggcttca | gggcagggcc | ctcagtгaca | ttggcagttg | 240 |
| tctggaacag | cccttgggat | ccaattccgt | ggaggгcaag | gcatggggcc | gccccaaagag | 300 |
| ggatgggtgt | aaacaggcag | acacactcaa | ggcacggaat | cactggaaag | gggctggggg | 360 |
| cggcgggagg | gatgctggtc | aagacctgac | agttttaaat | aggttttctc | aaaaagtttt | 420 |
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<211> 540

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AA875253

<221> unsure

 $\langle 222 \rangle \quad (1) \dots (540)$

<223> n = a or c or g or t

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| tgtgtggtga | actcctcaaa | cagccatttg | ggatccttct | gtatcatttt | actagcatag | 120 |
| acaagagttc | atacaaacat | tactttgaat | atccgtaaca | acttgagcat | gaatgttttg | 180 |
| gttggttggt | tggttggttt | tctgttttgt | tttgagacat | agcctcaagc | tgccagggcc | 240 |
| ggcctcagac | tcaccacaaa | gctgaattct | tggtcttctt | gcctctgtct | cctgagtcct | 300 |
| aggattacag | gcgtgtgcc | ccacactgtg | gtgtctgtct | atgctccag | tgttggcatt | 360 |
| tccgatacag | tctgatttag | gacagttcct | gaccacacaag | cctgactctg | aaccctataa | 420 |
| cacctcactg | tanggctggc | aaagcaatct | agcagaaccc | caccttcctt | acagagttcc | 480 |
| tgcacaaagt | tcagggtcaat | acagaaaacg | cttctgatga | aqcgttcctc | gtaccqaatt | 540 |

<211> 419

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AA875362

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<210> 202
 <211> 512
 <212> DNA
 <213> Rattus norvegicus

<220>
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 <211> 450
 <212> DNA
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<220>
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 <213> Rattus norvegicus

<220>
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 catttgcttc cttaacattt tctgtttttt ttttaagttc acaacacaag tatcagattt 180


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<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA875620

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<210> 206
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<212> DNA
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<220>
<223> Genbank Accession No. AA891032

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<220>
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<210> 208

<211> 412
 <212> DNA
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<220>
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 gtgtaaccat ctaaaaataa gacatcccgg aaacacacca actgaggaga aatttaaaaa 120
 tgaatttaaa tagagacttt ttaaaatttc tctcattgca atataatgtt agtgatttta 180
 aaaaaataga aggagattta gcagcttttc gtcgtgtggc aggttgggtc tcttactgc 240
 cacaggctga gaatgctgaa caggaaaggc accaaagaaa gacactggcg atgggtgtgg 300
 actgggagaa tactgtgttc aagcagagaa tagggctatt tacatccacc aactaaaacg 360
 tctccaaatg tgaatgagct aaacttcctt cgggggttgg agcgctacct tg 412

<210> 209
 <211> 513
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891108

<400> 209
 aacaggactt ttattggtag taaactagag caaacaatca gaataatata tatgtagtat 60
 tcagtacaca caataaaagt taaagaaatt caaacctgt ataaaacaaa agagagagag 120
 aaatcatata gcttaagaga tacaggggta aaggctctct ccatccttga tcacacttgt 180
 ctctgtaccc aatagaactt actgcactta ataagacata cagacatttt agtactgagt 240
 gtattaaaag aattaaacac ttttctaaaa atctttcaat gacaagttgg taccctttag 300
 ctaactaaag ctaaaagggt ggaggtggga aaagggaatt aactagtatt ttgtaaccat 360
 ttttaataat ttcttatttt ccaaactctg cttttataac agaagtgttt tacacttgca 420
 cagtattaat tactttatta tacatggaag cctgtggtac gctgggtaca caatgagact 480
 gcaaactacc agtggtactt tcctgacgtc aga 513

<210> 210
 <211> 474
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891161

<220>
 <221> unsure
 <222> (1)..(474)
 <223> n = a or c or g or t

<400> 210
 gcagaaacat gtgttttaaat tcatgggtta gattctggtg ggtacaacag caaattatth 60
 ggaattctgc tcagaaaact caaagctgca cctgtagatg ttatttcaaa taaaggacac 120
 gtgaatttat gtacttggtt tgtagcaagg aatttccatg atggtgtgta cctgggtctgc 180
 gcacaccttt tgggtgactag ctatggcttc tgcaggaact tcagtctgca cactgctgag 240
 aagcctactg tgaactgttc tcagggtgtcc agctgagggc aatgctgagg aagaccagca 300
 cagttgtctt tccttatata ccatggcacc tangcagggt caagaaacac ggcacagcat 360
 ttcatacaca aaatacagggt agccaacatt tgacttgta agtttcagat ttgatcatcat 420
 gttgtttggt tgatcctcca cataattcac aacaggaaga gtactgcaca ttga 474

<210> 211
 <211> 465
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891194

<400> 211
 actctcaagc aaaatttatt aggtatctac tcaagaaaaa cacaacgacc ttgctcgta 60
 agaattcaaa gtcaatgtcc tgaaagccag gcgtgaatat ttttttcctt ttaaaatcag 120
 atacagagag tagaaacagc aattttttctt aaatataaca ggcaacagag ttgaagattt 180
 gttttcataa atggtgtgaa aaagtattca tttatcaaca aggctgcagg tggccggctg 240
 gctggctgac tttccaatcc caagtttttc taatataaag ctagtgtgta actggagagt 300
 aaagtggggt tcttgaagat gtttcttcac ttctgcccc aacaatattc ctctgtaact 360
 ggaacattgt tattatatgt atttcagagt agttacaaag atctttctga gtcacaaaat 420
 tttgtgcaga cgatatattc cagattcacc ttagcttggt atctg 465

<210> 212
 <211> 627
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891221

<400> 212
 ggcatttcaa atgctactgc tgtgagtagg atttatttta agaaatgaac gacagctgat 60
 acaaaatggt tgctccaag aagtatgtca tacttacaag ggaaaaggta attaattattg 120
 aacattttcc ttgttcaacg gttctaattt ttataagggt tttataagtc tcatagtcac 180
 taagcagggt ctttttgaaa ggtaggcttc atgaccatt tgacttcgtg cctttacatg 240
 acatgacaaa ttatttttatt caaattatgt tttccaaaag agagggttct gtgctagtcg 300
 tctttgaaaag ttttcatacc atttcagaac cacatttgct gggatgaaca tttccgatgg 360
 atttggtgtc atctgggcct gagagagagc aaatgatgaa gcaaaattgt agaagttgtc 420
 caacatcttc tgtgtgaact gtgtgaagga gtcaaccgag gacacagcgg cactgcctac 480
 gggagtctgc tgagccaaac tgtccaaca ctccaccgag attccaatct gggcaacaga 540
 tggggttcgc acaatattca tggctccaaa tgggtgctgg ctcccttctc cagatttaag 600
 acctgatatt ttgaagatgg cacttgg 627

<210> 213
 <211> 474
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891286

<400> 213
 gatcaacacc ttttattggt tcacattttt tttccagaaa aactgtaata aaaatacatg 60
 gaattggaat ttgggttaca gtacattgtg cgattacaga acataaacga cgaagtgtac 120
 tccttccatg ggggcggaac atttcacccc accaatagaa tcacaacatg attaggcggc 180
 taccctacac tgtcgttctg atctcagaga ctggcagact taggagaaaa aaaaacaaaa 240
 aataaataaa taaaactcaa cagtccactc ctttggttcc ctggtctttt ctctcttca 300
 acacacggat gtggggcgga tctgagggag cctcgtgggg caaggtgggt gccgctggct 360
 gaataccagg caaaccggtt ccctgaggtg gccccacaag gtactgggaa acgccactca 420
 gtactgcagg tggagatggg cagaagggaa gacaagaaaa ctctgcccga attc 474

<210> 214

<211> 484
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891423

<220>
 <221> unsure
 <222> (1)..(484)
 <223> n = a or c or g or t

<400> 214
 actgtggcta aacagccaca attagcaact ttaatatataa gtttttaata caaagttcac 60
 cacaaagaaa gcagatgccca tgcgtggagg cacgtggact gcagctgcct catcctcaag 120
 tccccgggctt ctgggtgtttt gtccctcgat ccagcagttc ccatgtggag gctgcatggc 180
 ctctgtcctt aacattgatg ccgtgggtca tgaggctctg gcggagtgcg tcacatgcct 240
 ccagcaaggg ctgcctctcc tggagctgct gtttccgggc ctccccggtg gccccaggcg 300
 tggccagtgc atactggcgg accttaagcc tgaagcgcac tagttcatct accacacagt 360
 gcanggctac tgtgtgtctg tctcctgaaa cacactgtcg cttggccaga gaaatccaac 420
 agtctcgaaa aactgctcaa cgtaggcaac gatggcccca aacacagtgg gacttctcgg 480
 gccca 484

<210> 215
 <211> 614
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891553

<400> 215
 aattttattt cttctgctag agaacaggag ctggacacac gctgcccagg cacagctagg 60
 tgctaacaca cgcaggcacc aggccaactc acttaagttt cttcctcttc ttcttcttcc 120
 tcctcttctt cctcctcttc ttctgctctc tcagagctga aggtgccatc aggcaagctg 180
 tagactcgga tgacctgctt gttgggggtcc ttgaggatga ggtatttgcc ctctctccagc 240
 ttcatgcaga tatcaatgac acagcgcagg atgccccagg cattctccac actcagggttg 300
 atttggtctg caaactcatt gggcttaaac tgctgggtgc ccaggatgac gtggcgcgag 360
 gagtccttta catggtaccg ggacacatac ccgagcttca agtactcaga gccagccagc 420
 aaagcacagc acgtccatcg cgccaacttg tagctgttgt tcttcaactc agtggcgatg 480
 acagccccac gctgagagtc cagcttctga cgccagtcaa cgccattaca atgcctggag 540
 tcccattcat tgagtgtctt gatgttgatg aaggacactt ccccgttggc cccagtcagt 600
 acgccatcat gtcc 614

<210> 216
 <211> 493
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891694

<400> 216
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 cacctgagat gaggcacttt tatgattccc cccaaaaagg ataagtataa actacaactt 120
 ttcttggttaa tcgtattctc catttcaggt gtgattaact tcaagatggt ttacagggtac 180
 tataaacttt tattttgttg tcttccattt gttccgagtc aacaaaactct gtgaaatata 240
 taaaatacag ccgcaacaca gaccagttac tgtactcaca taaaaatgat ctgaacatca 300

cgtaaggaca caagtttcag aaaaggagta cttcaacact acttcaacaa cgacgatagt 360
 tttttcataa ttatgtataa atacattagt atccaaaggg cgaatctctg tactatttct 420
 agataagaat gtcctcaa atgtgtaactga attacaaatt atagtcttac atatgctttt 480
 aaagtaatca agt 493

<210> 217
 <211> 516
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891735

<400> 217
 aatacaagta aaaggggggca gggcaactcc ttccccctcc aggtcaggac caggagaatc 60
 tgctgggctg tccccgggac caaagaggaa aagagtgaca tagaaactga agcaaaggaa 120
 gcttagtcac actcagggtga ggggtgacagc tcctcctgga ttttgtttcc atttattaaa 180
 aaaaaaaaga aaagaaagaa agaaaaagcc acccctcac tcccagccca ttctcacag 240
 ccagggtcag aaagcagcat cagtggggcg ggttcctcac ctctgggttat ctctggccca 300
 ggtagcctg agccacctgc cctcaccagg agaggggttc agttggcagt taggcttggg 360
 gaagtctcta cctggacccc ccagaggcct gggagcacc ccctcctccc aggaaaggga 420
 atgcagtgtc tactgggctc agaggggtgg cctcaccac ctgacatgag tcctgattct 480
 cccatctcga ggacggcagg aagtttattg caccag 516

<210> 218
 <211> 593
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891738

<400> 218
 ccagtcatag tcttaaacag acactttatt ggaatcgttt taaaagcact ctaagaggga 60
 aatctccttg catcccagag gcgattgaaa gttgtagacg ggtagtgccg gcacatgcct 120
 ttaatcccc gattctggag actaaggcag gcagtttggt ctacaaagtg agttccagga 180
 cagccagggc tacacagaga aaccctgtct tgaagggaaa aaaaacaaga tgatgaagaa 240
 gaaaaagaaa taacgtacag tttttacaca ttccatacat cacacacata tctgaagaat 300
 ctaagcaatg caaaacaagg cctgagggga ggcattgagaa gtaaagggtat ggtagggtaa 360
 gaaagtgatg tcttcagagc tgctttctcc cctcagtaga ggaaggaaac gtttatctat 420
 ggcaccgagg attaaggctg ggttggtaaa gaggtgtagg ggtcctttgg gtacaaactg 480
 ctgttccatg ctttcattga accacctgaa cgtggacacg gtgccaggca ttgctgagca 540
 cgctcgaag gttccagatt ggggccacag tgtctggctg cacattgtaa ctg 593

<210> 219
 <211> 599
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891739

<400> 219
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 cgagccgcgc tcagcgcgcg ttactgggcg cgctcagctg ccccatcatg tcggccagca 120
 tgcgattgca cagcgcgcg tacggattga gcagcaccaa ctggcgccgt gcgaacgagc 180
 tgcccagtct cgccgcctgc tcgaagtctc tgccggcatc gtcgtcccga cctgaaatc 240
 gtgccagcag cccgcgctgc acgaagctct ggccggcgcc gcgaccccg cgcgcgctca 300

acgtcaccgc gcgctccaag tcctctaggg cgctgctac atccccctgg agccgcctcg 360
 cttgggcacg gttgtgttac gcagaggctc tctcaggtag caggctaata gctttgocaa 420
 acctctccag ggctgtgtgg aggtccccag cttctgctgc cctcactccc tgcaactcca 480
 gggccttggg ttgctccaac tgtgcttgag ggaaaactcc atcttcatct cctcctctg 540
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<210> 220
 <211> 511
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891740

<220>
 <221> unsure
 <222> (1)..(511)
 <223> n = a or c or g or t

<400> 220
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 tccaggcagg ggtcaacaca ggggtgtcac aggggtggtg agccgctgtc tcccatcagg 120
 aacgagggcc cgcccaccga catcagggcc cctcccccaa ggcatgggga ccccggggca 180
 atgacatcat catcctcctg agtttccacc cccttggtct gaggcggat gacatcatca 240
 tctttgtcct gctctgggac cgtagggaca gcagcctgag aatctgcgat ccaagcctgg 300
 aagttcccat gatgtttctc gaagaggcca gggaaggagc cgcgggggtc ggggacacca 360
 ggcagcaggg cttccttcac cctgcgcac cgcagcaggg ccaggagcag caccaggggtg 420
 agcagggcca ccggaggcca caggccaggg cgagaggtgg ggtgggggtc ccgggggtcc 480
 tcgggagggt ggggccagt cangagcctg t 511

<210> 221
 <211> 555
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891774

<400> 221
 ccagggacct ccgtagtcgg tctccctatc ccaactccaa acctcagagc aggaaatggg 60
 cttggctgag aagattcatg cttgatgacc aggggaggcg tgcagcccc caagaagaag 120
 gggaaaagaa aaacggggag gttgaaaagc agagaggtgc accttccctt ctgaggaagc 180
 aattctggtc tgggaccagt tgcaaggggt tagtaagaga aacctaaggg gtgcttacat 240
 ttttattctg gcaaatgaat ctcttaaaag gctccctcct aggggtgctt acatttttat 300
 tctggcaaat gaatctctta aaaggctccc tccttcgttc gggggaacag cacatgtacc 360
 tgtgtcagcg tgagatgcaa tgctacacaa gaacgtggca ttgggccaat catgtggacc 420
 cctgtgctgc tcccaaggga gaggttctgt ttgggtgtgg gataaatcta aacaagcata 480
 cactcgtgtt atatgtggcc ttaagggtag gggagcaaaa ggaatggact tctctgtaga 540
 gcagctcaag agggg 555

<210> 222
 <211> 636
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891789

<220>
 <223> Genbank Accession No. AA891872

<400> 225
 gagaacatga tgaactcatt tattactcaa atgggttgcatt tccattcaag agcacttaat 60
 acagaccatt caagagcact taattgattg aaattaaaga gaccaattgg catgggactt 120
 ttaaaaatac aacttattcc ttttaagtta ttacttaaac tatctagatc ttctacatat 180
 taaaatagaa gtgagaaaat agatctttgg aatctagagt ctagagtga ggctaaaaaac 240
 ctgatatgga attggcatga tcaatccaga ctacggctaa aatgcaagag aacagggtcag 300
 gagttgatca aagtttcaaa atttgtcaca tttgggtggaa aaataaaaaca ctaaattgcat 360
 gtgcctgtga tgatcaaacg gcataatatt cttcagacca aaacatatcc tgaaattcttg 420
 aacattcaac ttctgagctc atttctagct cccgaaaggg gggtgcacaaa tccaatggga 480
 ttgcatctac agtgaggccg ctctctcact gctgacaaaa tactctgctt tttggcaatg 540
 gcaatgataa acaagtagat gatgagaact cccgatgctt tttgagaatc aagggttgct 600
 gatcttgaaa atct 614

<210> 226
 <211> 480
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891884

<400> 226
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 cctctttcta tcccatctca ttactgggtg agaacagctc ctaaaataca agtcttggaa 120
 cctttgcgaa ttggcttgta aggagtatgt atctgcaaca tgtatggcct gcggcttact 180
 caaacatgtc tggttacttg tccttctatc tagtctccac tccttctctga gatgagaggc 240
 ctgtgttgct ggaggaaaag tggctggttag catttgccctg attcagtga taaagaaatg 300
 tgactgggag ccacagcctt caaaagggtga agctagggtt gctgtgtgtg gagtcctagg 360
 ccactcctggg ctacatgggt tcaggccagt tgacacagt agaccagct ttacacaaca 420
 ctttattctg caagcacagg tatgataaat gggaagattt tgaatcctgg aactgttgct 480

<210> 227
 <211> 605
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891944

<400> 227
 cctataataa ctgtgatgat ttattccatc atagagatta agatcacatg tatgtttacat 60
 acaatacaga ataattgtga tgatgactat ataatacccc tgtacatata tttctgtatc 120
 tgtacatata accagcaaag agaaaatcta catctgtgac ctaagacaca gaattcacac 180
 cctgtctctc cagccaggct aacagtgaaga tcacagtcag tttcctgagt gctggggcca 240
 ggtagagtc cctgtaacca acacatacaa ccttagaaga gctttaagaa aacacgcttg 300
 ctttctcaca gtcaacctac tggagcggga tctgtgctat aaacgtgacc tcaagaatta 360
 tttctgaata cccatgtaca tcataaggat gggaaacaaa gcctctgatt tcattgcaga 420
 cctttcctgt gagtccatgg aaccacgtta acaaaagaac gagcaggcag aaggggagtc 480
 ttagcagaac ttgggttcacc cccaatccca ctgccgtgag acttctcagt tcaacctatc 540
 cttaccaca ccatataaag taaaccacc ttttacattt aagtgatgct ttttcataaa 600
 gtacc 605

<210> 228

<211> 542
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891950

<400> 228
ccaaacgggt ccaaatactc aactgagaac tttatattata cgttattaaa aaggaccggc 60
ttctttctgtt ggacaacaga gcccaaaact cctttccccc aagtccacta ctcacagctt 120
gactgaacat ttaccaaggg cggatcactg tcaactgctat tcattcaaaa cagacagaaa 180
tcctgagtgt gggttctgag aagacagttg tgccctgtctt gatggtgaca atttacatcc 240
atggactctg ctttgctact gagtttctga aggccaaaggc tcaggaggagc tgccttagca 300
acaaatgggt attcctctag tctgaagaca tgaagggtggc cgaggctccg gagagtgcct 360
ttgtgcttat catccatgat gccaacatgt cccgtgcttc cgttaccacg ctcagcagga 420
cctcagtggtc ttggcataga ttggctccag cacatgatga gtaagaagca ggaagaggcc 480
tccaagaaag acagcactga gaaaagccag caggacatag cggccgatga aaaaggcatc 540
ca 542

<210> 229
<211> 216
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891965

<400> 229
agagatccag tttgacgttt tattaggtcc agccctctgc tacctgagca gtttcctcat 60
catccccagg gatgggcttc tatactcccg cccaaagtgg ttccaatggg ttaggtagtt 120
aaagagctgg tagagcagca ggcgtttgtc gaaccctgga gcctttggga tcttctgatg 180
gtaggcagtg aagaatgatc tggggaaccc cccaag 216

<210> 230
<211> 487
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA892027

<220>
<221> unsure
<222> (1)..(487)
<223> n = a or c or g or t

<400> 230
ggaaatccaa actatttttt aaaacaaaat attattttaa tattatgaat ctctgaagtc 60
atgagactta tctctccaaa aggggaaggac ccatggtttc tattttttat gcagcatttt 120
caaatacaca tgtcaatata tatttcataa actactaaaa aataaaaccc tttatcctct 180
gaggttattg atgtgtccta ggtctccaac acatctcatt aaacagtaag ttctattcat 240
cttcatgaat gaggtgggaa ctgactaaa aaataggatt ttaatccctg aggtgtcagt 300
taaaatgcag aggttgccaa gatttttttt ttcattttaa aattagcttt aaataattag 360
catggatcat gctatctcaa tcaaaaccac ttcctctaca cggagtcctt tagaaaatta 420
cattttctgg gttatggtca acctgatgtc ncagctctcc agctatgaga cttttttttt 480
ccttttg 487

<210> 231

<211> 433
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892112

<400> 231
 caggggctaag gaccttttatt gagcacacgg cccctgatgg tgctgacgga gaaaccttag 60
 gcttttccttc ccagcagcct ccgccacagt tcttggetga gtagtgctg ctccctccgg 120
 ggcgcctgca gcacactcct gttctcctgg gctcttcgga tcaggtagga tatcacctct 180
 tccaggcagc cataggggat agacttatat accatgtatc cagcttgccc taatgccagg 240
 gagacgtggg cacacatgcc cagaagttgt ccgaagcaga caggcccatc cagaggaatg 300
 cccagctccc acatgctgca gaaaggggtca cattgtcaat ccagagagtg gctacagcgc 360
 ctogttgcct ggcgaatgga ttcttcattg tgggaagcca catgagggtg caccggggac 420
 cgtggttgga cac 433

<210> 232
 <211> 443
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892128

<220>
 <221> unsure
 <222> (1) .. (443)
 <223> n = a or c or g or t

<400> 232
 agacataatt aatgttacag taaaaatagg catttactca tatttgtctt gttttagcca 60
 ctttaatttc tttcatctcc cctcccccta aggttttctc aaagcacatt atcattttac 120
 aaatacagtg ccaaggtcct gaggccactt tgcaagaatc ttcttcacat tcacggaaag 180
 cagttactta gtgcagagtt ctcatctcca cttaactgta cacggcttta tcggtgctga 240
 gacactggcc cacctgctgg ccagtgtctc ccacttcaca cacctaaacc aagctcaaga 300
 caggaaggct gagccgtgaa gagcatcncc acancctctc cactggcccg atagctcttt 360
 cccgccctc ccagttgtcc tgagaaaaat cagatttgctc acagaaaact gacattccta 420
 cattcatagg cagaagaatt tta 443

<210> 233
 <211> 439
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892146

<400> 233
 acagctatta ggtgctgtcc acttttctgc acagaccctg aaccatgcat caacttattt 60
 tctctgcaac ttacaataac tctctcagtg acttagctta acccttcaag tttctgtaac 120
 tttctcttca tatcttttct ttatcttagc cagattgggtg gggcattttc cagcccttag 180
 gagaccacc cttggagcct gggggcagac ctggagcact ccctaccttc aggggtatga 240
 agagagcagg cagaagtggg ggccttctat gcgtgttggg accctttttt tttctggcct 300
 ctagtaggat tccgtctttc ctcggtggta aagaagacct gtaacagtta ctaacaagca 360
 tatcaaatgg gatggtgaga aaacaagaga atcttgagaa tagagtctac cgaagagggc 420
 atacagcatt tagtcacac 439

<210> 234
 <211> 632
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892234

<400> 234
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 gataagtttt tattatatatt aaaaaacagt ggagctggaa gtaagggcgg gtcgttgaag 120
 gcgactgaga ggtgaaaggc ctcccgttcc tcagtggcag gatctggacc cactgcctag 180
 gccgggttta atccagccga gatgctggaa agcagagcac acagttgtgc ccatcagggc 240
 aaagagggca agagagctca cagctcctcg ataccgcttg ctagggtctc ccgtgtagta 300
 gccatatgcg taaagaactc gcccaataat ccacgccacg cccaggccag aagctatgcg 360
 cgggtggtaa acacctccca cggttaggaa gaatagggaag ggaggggtaca cctccaacgt 420
 gttctggtgg gcgcgctgaa tgcagttgaa catatgcccc ttctcaggat ctgtgctgta 480
 catgacaggg tactctacct tgtacttctt gcgggctttg cccacgttga tggctaagtg 540
 gagcaccatc acaaagctgg cggcaccagt gagaagcacg aatccatatt ccttagagag 600
 gacagccatc ttggctctgg ctcaccttga cg 632

<210> 235
 <211> 637
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892251

<400> 235
 cggccgccat actttttttt tttttttttt tttttttttt taaatcatga acgagttcac 60
 ttgttttaga aacagtgcctt accacgtcaa agcctcactt atgtgggaca taaaaataca 120
 ataaaacaca cacaaaaaat tcagccacaa aatataaagt cagtatgcctt gcgaaccggg 180
 cctacacatt tctggtgtag cacattttca ttagtattct atgtaaaagg attcagggtt 240
 tggtcacagc aatgggaaaa acacagctag aaacagtgta tacactgagt tgatttatgt 300
 ctgcctatcc cacataaaca catctgctct tacgatctct agctggacac aaaagtcctt 360
 cccaagagtc gggctgcgtg aacgtggggc tcaagtggag acaggaatga atctgatgga 420
 tttggaagat ttgggcgagt ccttcacat cccagtgcctg ttcgttgggc tccggttggt 480
 agaataagaa gtctgtcttc ggctcatgct atcggagtca tccttggcga atttctgcgc 540
 catgctgtgg cagcatggga aactttggac gcagctctgc aggagatggc cactgaaaaa 600
 catgtatatc cacgggttgc agcagctgtt caaggaa 637

<210> 236
 <211> 606
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892345

<400> 236
 gcacctgttt ctgtgaaaga caatttatcc atttgttctc agctgtcagc cacattctgt 60
 gttcctagaa tcacagtcct ttaatccac tagaatcctg atttcacatt ggcaaaccgc 120
 cagtgttttc tctgattggg ttccataagc accagtaata aagagtaata aaattaataa 180
 aaagtgttca tottaaagtc ctttgaatgg acagtgcaaa tcattaattc atcaaaccct 240
 ggtgtgtggg agacaatgaa aagggtttta cgaagatact gatctagatt ttggtgattc 300
 tgaagtgacg tcttggctat ctttatcctg gaaggagcag gatgccagag cagttctgcc 360
 agctacacct cgggtgttgg totttctcaa gatttcctac catctttctg aagcctgggt 420

ctggtaggtt ctgtgagtag caatgggtcc tgtataatgg ttgctgggta atttttaccc 480
 agtagttcaa cctccacttg ttgtccact tcactgagct caactgggac ataagcaaaa 540
 gcaggctctt ctggatgctg taactgtagc ttccacatgt tgtgttgcca atcagcttgc 600
 ccttgt 606

<210> 237
 <211> 719
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892373

<220>
 <221> unsure
 <222> (1)..(719)
 <223> n = a or c or g or t

<400> 237
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 gagtcaggat aaagtgtcat tgccattttt gtttgcagga tagagtcaga aaatggaaca 120
 aactgagatg actagggaaa cattctaaac ccacccaac ctagctaaag ttacataatg 180
 ttaggactca agtgccaaat tagatattac ccacttaato tacgagtga aaagagactc 240
 caaaatttat cctatttagt ataacaactt ttacatgaaa tatatagcaa tttgtatctc 300
 agaaagcaat acggcaactc ttaggcgttt cctttatgca gtgactagaa aatcttggtg 360
 cagctaggca gctctgcgac accagtaagc tgctcagggc tagcatagaa cagcttgata 420
 gagagctaac ctctcaggtt tcagaaggca gcaataattc tattttggct tttattctaa 480
 atgcttactg tagttaaggc gacaactgaa gcacattaag tgaaggtagt tagaatttag 540
 tgacaatcat tagtctcttg ccacctacac agaactgtat aatgcttttg tggaatggaa 600
 gtgttgatta actggaattt tacacactca cacacaaact taanaagtaa cgatcaaagg 660
 caatcatcct acagggtacta tgctgatgta ctacaatcca catatgccac agaactgaa 719

<210> 238
 <211> 591
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892395

<220>
 <221> unsure
 <222> (1)..(591)
 <223> n = a or c or g or t

<400> 238
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 catccttccc ttccgagctg ctttgctcag tagtggctgt atgcatggaa gactgacctt 120
 ccatgtaaag cccgttcttc tcttgatggt atgttctgga acacggggaa ctggagggtg 180
 tcggagacta ctgggtgacg tgctcatact cgcacttcaa cagctgattc tgcctttctc 240
 ctgtgtttat gattcgcata tgggtgttt tcaaaagttc aatcaaagt gatctaattt 300
 ccagggtgta ctgaagcctt tcaggtctcc aaccaaataa tttaggacaa ctggagcctg 360
 gctggtaggc gacgggtatc agtaggtgta ggaggctttg aagagtgact gcgtacaatc 420
 agcgctgac gagcccggtg gaacatactg tccttgggct gcctggcagt tggccacagc 480
 ccgcttcctg aaagcttcct gngttgcctt cttgtttgca gccttgccgc cccaagcagc 540
 caatgcactg gcctggaggg ctctgccgta tgaaaagctt agcctcgtgc c 591

<210> 239

<211> 498
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892425

<220>
 <221> unsure
 <222> (1)..(498)
 <223> n = a or c or g or t

<400> 239
 gaactctaac aatgtgatag gtgccacaca aaacattaga cacagtatct gcccggtggg 60
 cgtacaatct aatctaagga cacagatcat tttttgaatg ttgccatgag ctttctgttc 120
 atgagaatga ggtattaagc gcaccgttca gtgcaggaaa ggaccacac aatcactgac 180
 ctttcaggac ggtttgccta cataagtaca accaactgct catgtttctt attcttggga 240
 attatggata gtgtttttcg ttcattttat gatgagcaca acaatctata aggacagaat 300
 cactaaaccc acaaatctga caaaaccagg gttcaaaact ggcctctagt ccaaataaaa 360
 attgttgtat gttcagaaaa tcagctaaag taggacctag agaaagtgtc aggagccatt 420
 tttgttcaga gtcnccctac tgtccanaca gtctctctcc tcaaagcagc tttcaaagtg 480
 ccctttatct caagtctt 498

<210> 240
 <211> 583
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892506

<400> 240
 accagaaaat aaagccgttt tattattttc gtcttatcca ccatatggcc tgagggttgg 60
 ggtgggagca gagtaaatgg ctggccccag atgaaggctc tggagtcttc tacttggcct 120
 gaacagtctc ctccagcctg tccaggcgct cttgaagctt ttgcactatg gcgttgagat 180
 tcctcacatc ctctccagc cgtgacacgg tgtccgagct aagagtgtca ctgggctccg 240
 gtgtagctct tctgcgagca ctgtccaggc ccctgttgac tottagctcc ctgctctttg 300
 ggggcacgta gccatccttg agggaaatga ggagggggcc agcatcacga ccgctcagcc 360
 actcctcagc tgtgagggcg gggtcgggtc cggcagtggg tggatacagg tcctcctgga 420
 acaggtccga ctttctaggc actgtcatgg caataggctc acatttccgc tcatgaagct 480
 tatagaatct ggcaatctcg cacttattca cttccaggcc acgtttgggc atgtagccca 540
 taccacgttg agactccttg gaactgaaca tggaaagata atg 583

<210> 241
 <211> 547
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892520

<400> 241
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 ttctacatg gaggcctcaa ttagacaaga gagaggctgg gtccctcccc tcacactcct 120
 tctgacagtg gctggagtaa cagctctctc taatccaagc tcagaagcag cagggtgacc 180
 ccacctagcc tcaaaggctc ccactttggc tccagaagcc cctgtccttt taaccagccc 240
 agtaattccc ctacccgagc tccttctccc ccaccagtgt aaacagagtt tggggctgaa 300
 caacagagct ctgggaaggc aggagcctcc tagatagcaa agggaatgtg cttggagttt 360

cacttcgggtc ccagaatgag acccagcagt gtctcccaga actcgggctg atccagttata 420
 ctgcctcttc attctccacc actgacagag ataggccagg cccagacca cagtaaaaac 480
 aattgatccc cagagggttag agctactccc taccgccgac ccctggcaca tacacagatt 540
 tttggca 547

<210> 242
 <211> 524
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892553

<400> 242
 aatcttatgg cagtaaaacg ccagtaagca ctgataccag gactagttag gatctttcca 60
 gaacgtccaa ctgtggtggc aacatcagtt acattgggaa agcaagcctc gagacagtgc 120
 aatcaatgag ccccgccag ggatggggct ggcttgaggt tctcaacaag ccagtcttct 180
 gtgtcactt acacttcaga cacagaaatc aactcagtct tgatgtatcc agttctctta 240
 ggggtcatcga gctccatcgg ttctggtgct tcttttggcc tggagtagta cttcccgaag 300
 gcatggtctt tgtcaatatt gggatacaga tacttcaggg gattctctgg tatattctca 360
 gcagccatga ctttgtaatt gcgaataata tctgggaaaag taacagctga aagttctttc 420
 ttcgtgtagg gctcaacagc atggaagtcg gggtcacctc cattttggga ccgttccacc 480
 catgtgaatg tgatggcccc ttcccgggag ctctcactga acct 524

<210> 243
 <211> 465
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892561

<400> 243
 aagatttact tgtttatttt ttatatgtat attcatacac tgttgctgtc ttcagacaac 60
 ccaatagagg gcatcagatc ccattacaga tgggtgggag ccattcttggt gttgctggga 120
 attgaactca ggacctctgg aagagtagtc agtctcttaa ccgctgagcc atgtcttcag 180
 ctttttacgg gaaaggtaaa tggctccttt gttaaactctg ggcagtcgac cacagagacc 240
 tggacatgag caaagttgtc ctttagcccc ttctgcaaaa cttctgcgag ctccctcaga 300
 cttggcacgt ggaaagaaaa ctcaagtcaa gccattctct ctccctctcag caactcagac 360
 acagcagctg ttggctgacc tccaccagag ttcacagggc accagcgtga acagtcctctg 420
 ctcttgtcac ccactgaata aggtgtttgt aatcttccgt tagaa 465

<210> 244
 <211> 658
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892598

<400> 244
 acaaacactt tttattttgt ttttaattta gaacatgata catattcaca agatttacac 60
 tttatatcat accaaagcaa tctagaaaca ctgtacagag cacacttgaa catttagaag 120
 gctatatata atctgtggta aagtcatagg catcgtcttc ttcactcatt ttatccaaga 180
 taaaggatct gtcagatggg ttacttgctg ttgattgccc aggtgacatc tccctgggtct 240
 cttctacagg agtcacatct gagatctctg cttttttttc accagtaaca tgttcttgat 300
 catcaccatc ctggttggtct tctgtctgtt ttggtgactc ttcggggatg tccctttctt 360
 ctagtattcc atttgtcagg cccgaagacc ggaaaaggat tttattagtt aaatgagggc 420

ccttgaggac ttgtatgctg tgtgcattat tcttttctag ttcttctaga ttaaagcccc 480
tcttcatgat tgctgtaata ttctcattaa aatgaggaga atgattccag gatgcagggg 540
gatggcagta gtaacctaata gaggcacctg tccactcaga ccatagcagc ttagcagcac 600
tttcgacatt tgggcttcca cctttttggt gcagacctct tctctgagca agtttagt 658

<210> 245

<211> 476

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892602

<400> 245

aaagacattt tatgtgaaaa caaaagggtgc gaggtcctgt cggccctgtc agctccgcaa 60
gtcagtttgt gtgcaaattg ggctggccac agtggcaggg agggccggca gagtgggtga 120
gtctatggag ttgtgcaaca aggaggtggc tcaatctccc tcacaaggga gactggctgt 180
acggggtagg gcaaggttca gtacaaggtc aagttccac tacacaaatg ctttcatggg 240
tggcctccag ccccataagg attcccagca gagagaccac tccagcactg cctgactgaa 300
agctaccag ggatggaggc atctttgata ctgggaagat tctcaatgcc aaggacacac 360
atctgtgctc ctggaaacat ggtcttacag cccagaagga tcttagacca gtgcctctgg 420
actgcagtct gtccctctat ccacagtttg cctcttcctt ggggtctgaa ttgagc 476

<210> 246

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892666

<400> 246

aagggtttgtt tttaaccgtt gtggatgtgt acgtgtggag gtgtccccgg aggctagaag 60
aggggtgcttg ctcccctcga gcctggcatg ggtggactct ggtcctctgc tcttactgc 120
tcagccatct ctgcagctcc ggagaagaag gctctgacag gacagggccc aaaaccctgc 180
ttgtccttca gtggccctag gaatgcttag gcagactgag gttagggcac agaaggggaa 240
cctgaattct catagctcaa gacctgggta aaacttctgc gggggtagtc tgaggtaaaa 300
gagaaggcag gaaaacagtt ctgtcaagga aaggaaggct tgaagaaaac agacacaatg 360
gagccaggac ggagaggtgg agcctatgaa gtcaggagag tccagaggac cacttctcta 420
ccaggagcag accttagtga tgacagagaa cagagctggg cgttagacac agcctacagc 480
cagctct 487

<210> 247

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892821

<400> 247

aggtcggacg cctgctttat tcagacggga aaagagcagg gagtggatgg agaccagcag 60
aaaagaccac actaggctcag cactgggcaa ggagtggcca ggggtgtgact ctaagagttg 120
gcagaaaagc cctggcgtct tgagtcacga cagtctatct gaagtagttg ggacactcgt 180
gggcgaccac gttccaggct tggttaaagg cctccacgac agcgggctcc aggggacctt 240
cctcagtggc cgccaagttc tgctccagct gctccaggct ggacatgccc aagatgactg 300
cgtcccctcg ggtgccctgg agctgtgagt gatggtacat ccagcgcagg gcagccgagg 360
tcatgctggg ggcactgggtg ccatagggtg tcttcagggc cttttctacc agggcaatgg 420

cctcaaagtg gtgttccttc cagaagcggg tctgttaggt ctcagaccag ctattcccaa 480
agaagcggcc ctcgggctgt ttc 503

<210> 248

<211> 644

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA892851

<400> 248

caaagagaaa aatttttattg atataaaatg cacttataaa atgtccacag aagacatgtc 60
atatttcact gctatataaa tttattggga atgttattca catctattgt cacctaaaac 120
atactgtaaa caatggggtta ttccctaaga caaatgcata cgtgattctc agcaatcatt 180
ggtttgatta ttagtagggtt acaaggtcac atctctgtgg aatgtcagtg accgctgtag 240
tgtgacaggc ttcagcgcac cattgcacac actgcttcag aacagtcccc accgggtctg 300
gaccaggac gcaaagcacc ccctctgctt gaaacggcag ctctggaagg tctgcgtcac 360
agctccaggc ctctcgctgc agcactctat gggcacgtgt gatgacgtgt acacacgcac 420
gactaaaaag tttacctctc gtaacaaga gcaacattac cgtcaactct cctgcatatt 480
taagtagtaa agtctacgta tttgtaaaca acaaaaacac acaaactctat ttttaaaaac 540
ttccatcagc tcgtaattcc tctgtgatct aagtgaagtc acactgaatt tctgaaaggc 600
gcatgtatta ccttaggtaa taaagctctg caaggggtgc ttca 644

<210> 249

<211> 515

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA892861

<400> 249

caacattaaa atagatttat taattactgg tgaaaaacat gatataattat aaccaagtca 60
tatactttat tgaaaagaaa aaaatattcg gtaagaagtt tggcacggtc ttctgctggg 120
acctgtgtga aatcccagga cttgtaggtc ggggctgcct tcgtgagggg tgtcaatgca 180
gcccagaag tgggtaaagt aggaagtggg ggtcaaagaa aggcaatcaa gaggtctgct 240
cacagggggc ttttcccacg ttcattgcact gtcaggctgt atcctgggac agcgggggagc 300
ctcgagagat taatgagaaa cagaattgtc actttggcga ccaatgtcag aaaacagggtt 360
cctggtcaag cgtaggtac tagcgaattc tgaccctgag acttgagggtg tcaactgtctt 420
taaactgcca ggcattggag gaagtgtcca aagatgggac ttatagagag aagtgggtccc 480
ggcttctgt agtctccatc tcaccagccc caggc 515

<210> 250

<211> 533

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA892888

<220>

<221> unsure

<222> (1)..(533)

<223> n = a or c or g or t

<400> 250

gacaataaga actctggctc tttattgagt gctgctctca ttctgacgtt tgtctgctct 60

ctgttctctct gtagttcagg atagagtgtg tgggtggggag ggaggctgag gtggccaagc 120
aagggataca tgccaagggg gcaccaggga gaacggtaca atgctgtgag acacgggggca 180
tggctggaag gacacacaag ggcgagagag agagagagag agagagagag agagagagag 240
agaatgaatg aatgaataaa tgaatgaata ggggtcctaa aagggttggg ttgggtaagt 300
ccagggcctt gcagtctagt tttctgcctc aagagagcag gaagaaagcc tcactgtgga 360
gaaaggctga agctgattaa tgatcacccc ggccgtggca gcggtgctga gagtctctgc 420
tttacctgac cctccttan aagtactggg gtgggttctg gctgcacatg gggagatcag 480
atggccttct tgggggagag ttatttcaca gttttcccca tgatgtgggg ccc 533

<210> 251

<211> 541

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892916

<400> 251

caaaattaag accagtgtat aaacatactt gccaaagaat aagcaacttg gagcttatta 60
cattagcaca aacattacat caacagttcg ctaatcacat ctgtgggtct aaaggaatca 120
ggccgtaaaa gggcatctct aaaacacccc tgggcagggtc caaactcgct gggtcaccca 180
attacagtgg agaaggcagt cacagaaaga aacccaatga aatcctcctg gccactaaat 240
gggagtcttg aaaaccctct ggcattgaaga gacttgtaga gagggtggaga acaccctttt 300
actatggagg aaaaccagga gtccagggtat tctcacacat ctgacatggc ccttgagaac 360
aagtttcagc ttgcataatc cctgcattca caccatgcatt accactaaaa ggagtcctcg 420
tgggtcctac ccggatgccc aggggtctcc cacaggtagg ttcattcatc cgggttttgc 480
aaggggccga accaaaccgg gcgatgggtc ctattttctc attctccagt tttaacaactc 540
g 541

<210> 252

<211> 603

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892918

<400> 252

gcagatttag aaatttgaga tttttaataa ccacaaaaga aatcctttca cacctaataga 60
ttattaacag aatgtagtgg tgtattatct aaacagaaat cgtgctgatg tgccataata 120
aactattagt aaaaaaatac acttttagggc acagcattgt atcacaaatt ttacagaagg 180
gatactttgc aagaatttaa tcaaaactaga gtaactgtat cttttaaatg cagcacttaa 240
aaatgtaaca actctgtgca ttctttttct taaaaaaatg accttatatg tgtagaaatg 300
ctgctttatt gctgcagagg tcaaagttca aggctcaaga ggtacaggag agaatacaaa 360
ggtagcctta gaaactcggg tctgtttatg tataaaaagg taaagtattt aaaagttaat 420
ttacaaacca agaacaaaag tggatgcac gcattatgta catgcgtcct gaacacatca 480
aacatctcag atgcatagcc caaagaacag aagaccacca accactctcc cttgtcaaaa 540
aaaaatatat taagtcacac cattaatttc ttccagggtga ttacacatt tccgaaacca 600
tca 603

<210> 253

<211> 441

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892950

<400> 253
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aaggtaatga actaacagag actgtccatt agagtgcgga ggccatagcc tcccagctg 120
acgccaggta cttgaccagg aagtctctca gcctggatat gtgcacatc tccttcacg 180
tggtgtctcg gcttcgaagc tggatcagcc cactttccaa ggtgggtttca gtgattagaa 240
ccgtgaagag gatactcatc tcatcgtact ttgaatagag ttgctctaata gaggactgtg 300
cagtttccaa ataaccaggc cacacagcaa tcccattttc tagtaactca ttgagtagcc 360
cttggcaaac ctgtcggagt tccacgggtg ggccctttccc cacatctaga gccaccttaa 420
taggggctaa acaagggtga a 441

<210> 254
<211> 496
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AA892993

<400> 254
gaatgaaaac tcaattgctt ttattgacac atatttaaaa gtccggattg agtgatgaaa 60
ggcgtggggg aaggggctgt tggactaccc caccctacc ccggcgctgc ttgggttagcg 120
cctgcccagt ggggtccagt gctgtatggt gagtggccta gggtcctgct cttcatcagg 180
gggtggcggg gggatatctga gtccggaggc catggttctt ctgttctga cccactgtac 240
tgtgaccctc cctgtgaggg aggcaggtct tccgggctct gcaacctggg ttgggggttcg 300
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cttcttctct agcgggtgtg gaggggctgc tccgggtcca agaggcctgt cacaggtgct 420
cgctgtggga cagagggggg gatgaagacc tcgagctgag ccatactctc tcttcaccg 480
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<210> 255
<211> 482
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AA893000

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caaacagtag catctgaaga ccaccactcc tggaggggtc cccacaccaa gtcagcctag 180
tagtgactac agtagattag gagctaggag tcagaagaac aatgcttgag gttataccaa 240
cggggggttc cttactcctt tgccagctgc acattggtag gctttgctcc aatggggatc 300
ccatatttgt gcaaagtgtt catcaaaatc tccctcatgt cgttggtgta ggaatcaaag 360
tcaaatacat tccgaaccac actggagagg ccttcagtag ggaatttctc taagtgtttg 420
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tt 482

<210> 256
<211> 367
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AA893032

<400> 256
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acaagggtca tttttggtcc aagtgcgtgt aacatttttg agggagtttt aaggcatttg 120
 ggtctcaggg tttgtagct tgccctattg cttcttagc cagcagttct gagcaactct 180
 caagctttgt taccatctga ggtgcattct cttctgtgt acttctattt ctaactcatt 240
 gttatgctgt tactctctgg tctcccatgt agagtactca ggaggatttt cttgatcttt 300
 ccgctccatt gagaacatct ttaattgtat gaaacatcgc aggttgcctt tatctacaga 360
 gtaaagg 367

<210> 257

<211> 424

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893080

<400> 257

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 ctcaagatga cagaaccctt tgcagataaa attaaaattg aatctgagtg agaaatgacc 180
 ggatttccca ctttggaaca gatcaggcag cagcctcccg gcagccatcc ctgtgtagaa 240
 gacagggtga gctgtgacct ctgggaacaa ggcatgagac ctctgtctggg gaccatcagg 300
 ccaggagggc aggtgggcag tggcaggctg agggcagagg agaagggcag ggcagcatgg 360
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 ctat 424

<210> 258

<211> 479

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893082

<220>

<221> unsure

<222> (1)..(479)

<223> n = a or c or g or t

<400> 258

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 tcaccttaaa actgtgcagt aatgccattt tataactgca taaattttat tagcgttcta 180
 aacagttttg cgattttttt tttgtattat atgcttgag gttatatctt agtgcaattc 240
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 agatataagc aggggctgtt ccccttttta atacttttgt tttcaatata gtccacggta 360
 tagcaagaac tacacatacc caacttatat ttaagttgca agcacatgct tcagaagcta 420
 cttttaaaac agtcnccttg caaactctac cccctttaac atcacaacag taaacgatt 479

<210> 259

<211> 413

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893189

<400> 259

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 cctgattaaa atacagaaat ctataaagct ggcgcaggac gttaaactga ttgggttcctc 180
 ccagaggccc actggtcgga ccgctagcca cgagtcccgg ggctctcagc gcagtgtgac 240
 cagctcttct gaagaggtag gatgaatggc gaccgtattg tcgaagtcgg ccttggtggc 300
 cccatttttc actgctacag cgaagccctg aagcatctca tcgcagccaa tcccctgcat 360
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<210> 260

<211> 643

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893242

<400> 260

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 gaaaaattaa gagatgattt tttctttctc ttgaaagttt aagagagatt ctcaagtcat 180
 cttttcatga ctggaacttt ctaagacaaa ccacaaagcc atataccaag cagaaatcag 240
 agaacgaagc ccagtcccca tcagctgcag gtggaaacca cggagaagcc agcacagcaa 300
 gtggctcatg gttaatacct caggctctgtt ctgagaaaag atgccgatga actgctctga 360
 gcaaggtttg aaacccttct ggatcagcgc cgagcctatg cactcagcca tttctgcaac 420
 ctgtttgtaa gaaatccact catatggctg gtttggtttt ctagaacctt aacaagggcc 480
 atcatttgac acctgaatcc cctctggaa gccatcgta atcgttctga catcgctcga 540
 gtagtacagc aagagcttgt cgctctcaag gactgctgat cttcggacac cctcagtagt 600
 acccgttact ttcacagact gcatggacag atcacatggg ggc 643

<210> 261

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893246

<400> 261

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 tgccaagggt tacaagtggg taggaaggaa ggctgctcag catttgccctg agaccatgaa 180
 tgtttatagt aagtatttcc taaagtttta aacacatcag tcaaactagt gtaaataagga 240
 tggtatgact ctttactcgg ggagattctg taagtgtcgg gtgggtttta caaatctcag 300
 gttgctgaat tatgatgcag gaaaaatggg ctccacacagc attctgataa atcttacagc 360
 cagatgaact cttctgcca aataaatacc cgcacatacc gaacctgcac actgagttta 420
 atgatgctca gcctgaaggg agcagcgggc agctactcga acagcaggtc ctgcctcttc 480
 tcttccgcca ggaggttggc gggctccatc aactctccag ctgctctccg ccgctccaag 540

<210> 262

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893436

<400> 262

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gaaaccgaag gcaacacatg acagggtcac tacatttcat caatttatac acagaaataa 120
 aaatccagct accaagaggt cctctcccag agtgccggtc gcctccgaga catttctccc 180
 tctccctcag cattcgaacc ctcttactaa gagaggtagc ttgtgcccag gctctattcc 240
 agtagagctg gagaatttat gacacactaa aggaagccac cagaccgggc ttccgggcaa 300
 cccacttctg tcccgttcc ctttttctct tgcttagaac acaaaagtga ccagcaggcc 360
 actttgtggt ctgtaaccc aatattcaaa gccatcgtgc ttctgatctg aagtgttttc 420
 tgaaggttgt ggtgttcagc tgataaggcc ttctgtaact gattggatca ctatgcaatg 480
 aaggaagggc tcaggcttcc tcagcaagtt aa 512

<210> 263

<211> 466

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA893453

<400> 263

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 agttcgggtc gatgttaaac aaactacaaa aggtttgaac aggtcgtca caaaaggat 180
 ttaggttatt agttaccatg tgaaatatct tcattgtcgt aacacaccag agaaatagaa 240
 taaaaatggg ggacagtatc actttacacc tacgagaatg gctaaagtca aaagaatcga 300
 catgcccctt cctgcccccc gcagatgtac aatggtttaca cctgacacac acagggtcacc 360
 agagtctggc ttcttttcat cgaatataaa tacctgcttt ccccaccacc aacaaccaac 420
 cagcaaatca gtgcccgtat ctacttaaaag aaagttaatg ggtgct 466

<210> 264

<211> 410

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA893454

<400> 264

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 ttagaagatg catttggtta cagcatggat gatctctggt gtgacatttt ctgacgtctc 180
 cataagacac tccccatgag tttctattta attcgcttct aagaaacttt ggaaatttca 240
 aaataagtgg atggtcaaga ataaaaaaat atgatctttt ttaagctgtg tgtataatgt 300
 gcctggtaag ttagagggaa atgagttttg gaaagcaggg tttatgtggt ataaaaatac 360
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<210> 265

<211> 434

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA893485

<400> 265

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 aataaatttt ctgttatact aatacatagt gaacttatca agctactgta atactgtaaa 120
 tagtcatgct tgtcaggatc tttctggaag gacatggcca agcatgagag ggtggggggc 180
 atccatgcag tcattctagg ttagttgagg agtaggaaat tgagagtact tctcgttttg 240
 atgcgaaggc ttctcaaadc atgaagatca ttacaaggac ggccgtaagt gagatgaatg 300

agcctataga ggagactgta tttcatgtgg tgtaagcatc tggataatca gagtaacgac 360
gaggtatccc cgctaatacct aggaagtgtt gagggaaaaa tgttatgttt acacctacaa 420
atataatggc aaag 434

<210> 266
<211> 656
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AA893495

<400> 266
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ggagaccctg agaagactgg ggaaaggctt ccatccctca aagtcagatg gcaccaaggc 180
ttctcaggac acgttcttag gctggattga ccacttggct catcatcagg ctgctccatg 240
tgaacttgtc aaagagcagg aggatgaagg gcttggtgaa cttgatgtca agtgggttcag 300
agcgcaggtg taggggagcc ccgttggtag aattaggcaa cacattccct tcatccagtt 360
gtagcatggc cttgtggacc atcgttaatg tcaaggggaa atctttgggtg ttgcctgaga 420
aatctgattg gttgttgagc aagtccttaa tgttcagggtc ttccagcacg tctttaagggt 480
cataggtatc agacatggag aatttcggga tgtatagggt cacctgcctt ggggtcataa 540
gcttgcccca cctatcaatt gtgtcccgac taagtgcagc gatgacagtg tccatctggc 600
cctggtccgg aagaatgaag aaggcaggtc catttccac atagtccatc tgtatc 656

<210> 267
<211> 630
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AA893552

<400> 267
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ccatctagcc ccacgcctcc ctctaccact cttgggagtc aggggccctt tcccacccca 120
agccatgggt gcagagttat tcatatccag gcctaccag tcacgttctc ctgctggtaa 180
cagaccacct aatcctaggt ctgctatgct gtgggggtga ccaccttccc catgaagagg 240
atatcctggg agctgggtgga atacaatat accaagaagg gccggttgaa tataaggtaa 300
cgtttcttgg gctgggcaga gaaaaagggt gaaaaggagc cgggtggctgc tgctgccttt 360
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tcctttttgc tgatatttga gaagttggca tttgggggtga acagatcctg gaagcccaag 480
tcaggcaaaa tctcatccaa ttcataaggaa tttgaaatgg agaatttagg gagctgcaat 540
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ggggacagca cctgctccac ctcatccaac 630

<210> 268
<211> 485
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AA893667

<400> 268
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cgagggtgag gggaaggata gaggtcaatt cattcttctc tcagactcgc tctcatccac 120
tgggtgtcct cggggaggac cgttttctgg aagccagtgc agaagggtgc cctgtttctc 180

catgatcttt tcagaggaaa tccaaaatct ttttgtcagc aatcctgttg attccaactt 120
 ttatcatcct gatgagattc tcttgtctga agctcttcat gcattcaggt acttggcatg 180
 atgcctgatg tggtcagtga tgaagggtgc gatgaagtag tagctatgat cataaccctc 240
 ctctgttacg taagagtaca ttctgtagtt agtggtccaa ggatcctcag tggcggttcac 300
 aaaaaacccc gcaccagtgc cgaagtccca gctgtcatct tctcctttaa tattgcagcc 360
 acgggggctg gtatcaggag caatgaccac aaggccatgt tctgaggcag cttgttgaca 420
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<210> 272

<211> 477

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899113

<400> 272

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 atcacactat acatgttgtg tgatcttttt tcttttttct tttttttgga gctggggact 180
 gaacccaggg ccttccgctt gctaggcaag cgctctacca ctgagctaaa tccccacccc 240
 catgttgtgt gatcttaaaag aaataaaatc actttgacta tgtcaaaact agtctttgcc 300
 catccatttg tcccctacca cagctcccag tgagagttct agtcacagca atgtatcgac 360
 acagacatca catcaaagat acttcaaact cctatgtatc aaagtagtac atggccttgaa 420
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<210> 273

<211> 536

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899195

<400> 273

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 gacgtgtatc ggtagccatg aggaaatctt ccagagctca gtctctcact gtcgcccagc 180
 tgacaagcac aagctgtggg ctccatccgt agtcctgcat aaagcaagca ggacacacac 240
 ctgtgaccct agtactcggc aggcagagct gggaggaggg tcaggagtct aatgtcagcc 300
 tgggctacaa gagaccctat tctcacagaa gaaaaacaca gagcatgttc tagcaaaggc 360
 taaggcacgt ctcccacaag tggaaagctg gaacatcagt gtctcggcga cagggattct 420
 cctaattcca ttagtgaagg gcgtctcaag tcagctggtc accggagcca tgggtctctg 480
 acacagtgtc ttcgtttccc actatttcat tgagcttcac tgggtctgtat ttttca 536

<210> 274

<211> 472

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899256

<400> 274

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 cactttcagc gccatgaggc agcggcacat gttggcataa gccacagaga agttgggctc 180
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tcgatcctta tcagcggctg tccgtttgct actgggtttc cacgccttct ctgctttggt 420
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<210> 275
<211> 343
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA899498

<400> 275
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taaaggccaa ggagagcccg tcatccaggg gcaggaggct aatgtagacc ctggcgtccc 180
gcaggatgcy ctcgttttagg ttccgcacac attcaacagc cttgttctgc gtccaccacc 240
gctatgtcga aggttccggc ctgcgccgcc gccaggagct catccaaagt ctgcagggcy 300
ggctgcagcc gaaggtcgat cttctgctcc acttctgcct gct 343

<210> 276
<211> 333
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA899635

<400> 276
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ggccatcgaa gacggaaatt tggagaaat ggaagaggag gtacggctga agaagaggaa 180
aagacgaaga aacgtggata aagatcccg gaaggaagat gtggaaaaag caaagaaaag 240
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gaacgccatc attgatactg tgataaacta caa 333

<210> 277
<211> 470
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA899721

<400> 277
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atthtttaaat tacatgttat ttgtgtgtgc atgtgcaggt gtgtgcgtgt gttggaggac 180
aacttgtcag agttggttct ctctaccat gtagatcctg ggggaaagac aatctcaagc 240
tgtcaggctg ggcagaaagc accactatca ctgagccatc tcaccaggct aataggcaca 300
gttttataag gaagthttta tttctttgtt gtcttatagc actggagaat gaattcaggg 360
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cttaattcat tatattaaga aaaaaaggg ggggttgagg atttagctca 470

<210> 278
<211> 344
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899797

<400> 278

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gggcataagc cataactcaa aaattaactg ggggtgggga tttagctcag tggtagagcg 180
cttgcttagc aaacgcaagg ctctgggttc ggtccccagc tccgaaaaag aaaaaaaaaa 240
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caggcactgt ggctcacgct tagaataata gcaactaaga agct 344
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<210> 279

<211> 426

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899847

<220>

<221> unsure

<222> (1) .. (426)

<223> n = a or c or g or t

<400> 279

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cttacagtga acttttgaga tcacacagat agacaggtag acggatagac acacacacac 180
acacacacac atacaaacac acacacacat acaaatgtgc atacaagaac tataaactgt 240
taatcaaaat tatgaatgat aaggattaag caatttatat attgggaaat ggagganggg 300
aagggcagga aggagtgatt agagaaggct caatgaaggg gatgacggtg agcaagttct 360
ccaagcatgg ggatgaaatg gcttccaggt cagcataaca gcttgaaccg aagtaatatg 420
gtggaa 426
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<210> 280

<211> 351

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899964

<400> 280

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gagtgactgg gcgcgcggtg acagtgacaa accagtgagc cactgtgatc catagaaagt 180
tacattagca atcaggagag aaagggaagt gtgaggtggc ccataggcaa gatgtgagca 240
gagcacctgg acccttcctt ccctacatgc agtgcttggg ccctgctgac gggcacagtg 300
accttatgac ctatagtaag tggccagcct ctgactgcta tgcattggtca g 351
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<210> 281

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900009

<400> 281

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ttgaacacat ttaaacgtgt aggcctttgc tactcaatct tcagagtgcac acagccagaa 180
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ggattacaga tagtgtaaag aacatccgtg gttatggagt agatgggggt caggatggta 360
aacagaagca cactgttgac gtcgaggag tcacagagt caccggggcg agagatcttc 420
tggctggtag aataattgac aaaagcaagg tgaccagcaa ttagatctg gttgtctgca 480
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<210> 282

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900290

<400> 282

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caacaattgg aagagaactc cagggtatct ttttgactct tacatctttt tttagaaat 180
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cccaagctgg cctccaagac agacttcctt gtctcagctg agtggtggga tcacacctgg 300
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gcacattgca gaagaagtga tggagtaatc ttcacatcta ccaatgtcat cacaacagaa 420
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<210> 283

<211> 527

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900506

<400> 283

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acatgggttt taaacacagt gaggcgtatg catctgagct ccgttgggtc caacacagaa 180
atgctgccgt aactttgctg ccatcaggat tctgcgccgc aatgggtttt gggggttaggt 240
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gccagtctca gcaaagcgcg gactggcatt tttaggtgtc tgaacctgaa taggagttca 360
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tggttagacca tgaatcaggc caccatgttt agctgagact tctcaacagg ctgcccacta 480
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<210> 284

<211> 274

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900548

<400> 284
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 gctcatcatc tggggtgagt tactgtgacc tcccttaaaa tcttggttct tcacaacaag 180
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 ttaaacatgc actgtaaaaa tgacgttttc tcgg 274

<210> 285
 <211> 406
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA900553

<220>
 <221> unsure
 <222> (1)..(406)
 <223> n = a or c or g or t

<400> 285
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 ttcttgccag cccaaggaga tacaggagct tcagaaagag gctcctcatg gagctgacca 240
 ggagctcaag gttccaataa cacatgtgag tgccggagctg ggaacacatc ttccattgga 300
 ctgtcctggg gcttgtcttg tcaactcaagg caagtggagg tcagaaattg acactcangg 360
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<210> 286
 <211> 535
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA900580

<400> 286
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 tcgcatcatg ttgtccatca ggcccgtgca gtagcccagg aagccgatgt agacaagccg 420
 cgggtcggtc agcttgggcg ggggcagtct ccgggcctca tccggcaaga atcttaaggg 480
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<210> 287
 <211> 398
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA900613

<220>

<221> unsure
 <222> (1)..(398)
 <223> n = a or c or g or t

<400> 287
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 ggcacatgcc ctgtgtactt cttcagtggc aggtggcact ggccctcagac ccgtaaccag 180
 ctgccagggt aagagtagtg aggggaacga gagtggccag ggccagggca ggaggctgac 240
 cccctcgtc ctatgacacg agtgccacca ggggtggcag caccactgct gaaccgaggg 300
 gaactgcana gacaggcttc tgggacccag ccactgggga ggccaacagc agtgtgcggc 360
 ccttcagtgc atgtggcccg ggtcatcatt ccatcca 398

<210> 288
 <211> 534
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA900863

<400> 288
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 cctccagct gttcctcagc cctgccccca ggactgaacc ctgggctagg gccaggtagc 180
 aggacagccc ctcaaagtga gtcagcaacg ttgaggggca tctcttcaat ggagggtgtg 240
 tagaaagtct caatgtctcg aagagtcctc ttgtcttctt ctgtcaccat gttaatatagc 300
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 gtgggaaggt cataattgat gactagggag acctgctgca catcaatgcc tctggccaac 420
 aggtcagtgg taattaatac tctgctatag ccagaccgga actccctcat gatcacgtct 480
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<210> 289
 <211> 447
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA901006

<220>
 <221> unsure
 <222> (1)..(447)
 <223> n = a or c or g or t

<400> 289
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 tggcaagatt taaaatgtca acttgagtg atcatgcaag cccatgcatt ggtgcctgcg 180
 ccctaattgc aggaccact ctgctcatcc ttgtggctct gtaccctcag cggggttcgt 240
 agtaattctt ttcataaag gtattgacag tccaactaac aacctggatt cttttggctg 300
 accattctt caattgtccg gggagacaaa atccttctgc atgaggaagg ctgaaatccc 360
 acacaggtac cacaagacat tgtgcatgct ccagtcaagc aagatgtcca acaccacana 420
 cacagactgc ttccaaaaga cgctgta 447

<210> 290
 <211> 330
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA901107

<400> 290

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acaaaggaca gcgtgaagat gtagctgtgg tcatccgtgc acggactggg ctcttgtcca 180
tttagctggc tgtcatgtca aggtttctta aatgccaaacc tcagtgggtt ataaattatc 240
ggccccccga ggatttcagc aagtccagat catccgtctt cgaatccatc tcttgggtact 300
gaacttgatg tatcaagacc cctcgtgccg 330
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<210> 291

<211> 412

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA901152

<400> 291

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ataaatatac actaagatgc acactatcaa cagggtgtcct caacgtgagg ccacaacaca 180
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cctctaagaa gttgggggac gccgaccgct cgggggtcgc gtaactagtt agcatgccag 360
agtctcggtc gttatcggaa ttaaccagac aaatcgctcc tcgtgccgaa tt 412
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<210> 292

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA901338

<400> 292

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tgcattttac agaagtctat gaacgatttt aagaagcacc tccttactcc atcacgtttc 180
tctgacagtt gttaaagtag gcaacgagta tatcaacagc ttgaataccg gtatcttgca 240
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atggtacatc cactctgatg gtaacctgtc cagccaaatc tccaccacat tttgaaaaaa 360
tcaatgggtga ttagcaaatt agttagcttt ggcacggagc tgtgctcgct tgccgtgtgac 420
agcctggaag ccagttttga tactggccac agagcatcga gaatgacaag tttcacactg 480
taagaaatag agtcgggtgt ccttctgtaa gattgtgtcc ggtgaccggc atgtgtgaca 540
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<210> 293

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924036

<400> 293
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 caatttttct catgttcttt ggagtcttgg gtttttgaga aaaacaataa ttccaggagg 180
 tacaaggaca attcttcccc aaacgataac ccttaacaca tcttacacaa aaaaaggagc 240
 ccaggagaaa ctggaggatt cacggtgtct aggttataaa tatcaattta aaagtcaccc 300
 atatcatgta actcaggagc ctctgttcca acccagtggtg ttttatgaaa caaagagaca 360
 gggctaacta aaggaatcaa agaacccttc tccaagcact gacaccaatc taactggaca 420
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 tgtcctgaaa gg 492

<210> 294
 <211> 494
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924152

<220>
 <221> unsure
 <222> (1)..(494)
 <223> n = a or c or g or t

<400> 294
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 gagctggtca ggcaggcggc atcccacagg agagtgggtg gagtccttgg gcagcacctc 180
 acagaatgat ttggttggtg aagcttcgac ctgggcagcc caggatggtg atggcaggaa 240
 tcaagataag cacctcagcg gggatccgta ctgggcagcc caggatggtg atggcaggaa 300
 gtagctttcc atctttgaag aggcctctgc tgtccatgcg ggcgcggggg tcattgggat 360
 tggggtcatt gggagtcccc tctacgcggg cccagcgcgc cacagtgtct cccagccca 420
 caatgctgtg aaggacacag gtgtgttctt gcantgtggc tccatggagg acaatactct 480
 cccgcagacg caca 494

<210> 295
 <211> 292
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924196

<400> 295
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 aaaaccttta agtactaaaa ttttacatca tgatttggtt aacttaagaa gtgttatgac 180
 gttgagaact aatagattta aagcagaaat gatgacttcc acaagaatca gtcactctc 240
 ccaaacatga gaagggaagg aagacaagga aaaggtgaga cagaagaatg aa 292

<210> 296
 <211> 380
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924236

<400> 296
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 ctactggcta tcttggaaca ctcaaaaaga gtctgtattg gtgaaacgtg ggatcagttc 180
 tatctcacia aactggaaaag attataattg agacactgta ggcagagttc agcatgaagg 240
 tgcctgactc acagtaaag ttcagttcat agttactggg atctactctt aactttaatt 300
 cctcaaagct ttaagcttct aaatcttccc ctgggattaa aagtctcata aaatgtgtac 360
 tttcctctat tttccttctt 380

<210> 297
 <211> 226
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924261

<400> 297
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 cattgtgaat ggcccccatg gggtcatttt tatacagcat gaagtagcct tgcacctggg 180
 caagactaat ctgggatgta gctttaagga catgttcagc aaaatt 226

<210> 298
 <211> 464
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924289

<400> 298
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 tgggaagggt tcttccatga ggccagccac gcggttgtgc gacagggtcca gccaacgcag 120
 ggcttctcat cccagaaaagg cacgaggggc cagggtgtga atgagggtcc ggtccaggta 180
 cagcttctgc agcctgggca aatgtacaaa gacgttagct ttgacgcttc ggagtgcgtt 240
 cctgctcaga tccagctccc gcagctcgcc caagccacag aagagcgcag gctgcaggta 300
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<210> 299
 <211> 441
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924301

<400> 299
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 aaccatacaa ggatccgcct gggctgatta gtttgggaga tgatctggag gttggtagga 180
 ctctccttca tcttcaatgt aaactgtgcc tctggtttcc aaagttcccc ttgtttctcc 240
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 agtgcagttg agaagagaat gaggggtgtt ttgtttaaag tacagaacaa gaaacttcca 360
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 gagaaaggga gcaacaaaga t 441

<210> 300
 <211> 441
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924307

<400> 300
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<210> 301
 <211> 355
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924405

<400> 301
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 cctcagaaaa tttctttttc ttcttagggg tgatggggct tgctgcctct tcagggtcac 240
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<210> 302
 <211> 384
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924460

<400> 302
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<210> 303
 <211> 467
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924598

<220>

<221> unsure

<222> (1)..(467)

<223> n = a or c or g or t

<400> 303

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ctgcagggtg caccttttcc tcaaaagctc atcaggcact aagtccatgg ttgttgcana 420
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<210> 304

<211> 527

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924630

<400> 304

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tgcttggtac aggtcttctt ggtttaccac atctcctctg ctgatgttga tgaagacagc 480
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<210> 305

<211> 465

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924763

<400> 305

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tgctgctgtg gcgcttatca caatggaatc gacgaagttt caaagcaaaa agatctgaaa 420
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<210> 306

<211> 517

<212> DNA

<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA924767

<400> 306
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 ggaggagctg agagttctat atctttatat gaaggatgct agaagactgg cttccaggca 180
 gctaggatca gcatcttaaa gcccacacct acaatgacac acccactcca acaaggacac 240
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 accatcaca gaaggcagaa tcatttttta gtcccagcaa caatgaacaa gaatgggtttt 360
 ctcttccaat ctgacatcca caaaatagaa tcccactgta attttcattt gtatacttga 420
 tgttatgcaa tgggtcaatta tcttccatt tacttaaaag ccacttgtgt ttcatttcta 480
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<210> 307
 <211> 479
 <212> DNA
 <213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA924768

<400> 307
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 tgctccacca atcccccttg tggccttggg ctccccaggc aggaggacag gtggctcatg 180
 gaggatgaat tgatgataag aaagagtggg cagcaaggtc agaggtcaaa gaaagccatt 240
 caagcaatat gtccgacact cctcttgc atgcccactt gccatacaca ctccagccaa 300
 ggcagccttc tctccacat tctgcccagc cacagccgtc caggaccact ccctatctac 360
 tcagtcact gcccattag caagggaaaa caacctctc cagatgctac atgaatctgc 420
 ttgctccaac ctgggtctag caagaaggga ctaaggttct ggtcatctac aattctcac 479

<210> 308
 <211> 450
 <212> DNA
 <213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA924793

<400> 308
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 attcattaac gagctggtat tttacttccg agggttttca gtagaacagc atcattgaaa 180
 ggatgccaat gagctgcttg gtgatgggccc tcccgtccga tcagatggaa gtctagaaca 240
 ttattgcttt attagtcta ttaataaatt gtaaatcact cctagggaac ccaccgggtc 300
 aggcgccttc cctgtgggctg gtcagatgta tctgatctgt ggggtgtccaa actcgatatc 360
 agtctgcatg ttctgcggct tggctggttt ctagggctga ctgaggtgga gcaactgccc 420
 ctcacattga tttctacatt taaaaaaaaa 450

<210> 309
 <211> 286
 <212> DNA
 <213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA924993

<400> 309
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 gtttaaaaca ttttaaatcct gtctctgtac atggcgtagt acgtgtgtcc tcccacctgt 120
 ggggaagggg aaggtgtgga aacagggcct tggagccctg gtgtgtgtgg ggtggggtag 180
 gtgggcagag cgggcgagtg ggttaaaaca agcatcttgc ttactaacat gaagcctcac 240
 accctgtgaa cagggatgag gctgcattgg cttgaggggg gcctca 286

<210> 310
 <211> 495
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA925045

<400> 310
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 taaataatac tatttcacct atctttcccc tttgagctgg agtccagatt ccttctctca 180
 aattcttacc aggagtaaaa tcttttagtgt tgtgacctct gtacctatct gtacccaaag 240
 tgccctttta taaactaaat gagacctaga actctgaaag gaagcttctt cccacttact 300
 gtagtggtaa actgaccttt ctgtttctctg agttgttggg agtacagggt agcgctacca 360
 gcattaaaaat actttctctg gatatacttg ctttgtgctt caggcttcag ttcagatacg 420
 aactcccagg aagccttgga cctagtaggg ggagacgcac taacacagtg tcctgtcctg 480
 gaaatgtgta tgctt 495

<210> 311
 <211> 118
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA925049

<400> 311
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 gtgggagata ggaccaccaa ccgtgcctgt ccagaacaaa agttggctga cccacacc 118

<210> 312
 <211> 428
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA925057

<400> 312
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 ctgagcttac ttgaaagtgt ggctttcagc tccacctcgc ccaaagcctt tgggcccaca 180
 catggcggag tagcagggat ggttgtagta gggcttgctt tcatgctcag catgaccccc 240
 agaggtcagt gtctttccac atttctcgca cttcaggcag ggacgatgcc agtccttgcc 300
 tagtgacgtc actcgctcag cgaaatacac ctccctgtcg cacttggggc acttcggcat 360
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 gaattctt 428

<210> 313

<211> 570
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA925063

<400> 313
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 atgaccatga tgacaaaggc tgccaggtag gatgtgcgtg ccatccacat gctgacaaag 180
 cggtagtgct cccagagac cacattcctc aagaagcctt tgttctcctc attctctgcc 240
 aggcccttca cactagacat gaggacgtcg tcgtagccca ggaactcgtc cagcagcagg 300
 cggctgaagc ggtccccgaa gcactgctcc cgcgtggggt cttgatggag ctgttggtga 360
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 caccgaggcc cccatcacag aactgcagga tcaccggtgc cccgctggag ttgtggcgca 480
 cctccacccg caggacaccc tcccgtggcc atcgggtctg aacatgctcc aagcagttga 540
 tgggggaccg ggagaagacg atgtgtatgt 570

<210> 314
 <211> 505
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA925145

<400> 314
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 tacattgtag caaaaaacaa aagtagggcg cagcatacaa accaaacatg aatgtggaaa 180
 gtgctagaac aagatgaact tgatctctga cttctagaaa ggtcttccaa ggttcatgca 240
 ttttacttga atcagcaagt gtttcctga gcgttggtga ttatgtttgt cgtaatgcta 300
 actagagagg aaggtaagaa gcacgttcta tggtccttgg ccatcagtag tttatgatct 360
 agctatgcct gggtataaag atgcacttac taattctaag accttaaagc gataatcgcc 420
 tttgaaagcc aagcatcatg actgttcaat aatcctgccg tcaactcgca cagctttggc 480
 gtctcctcta ctgagactgt aactc 505

<210> 315
 <211> 527
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA925167

<220>
 <221> unsure
 <222> (1) .. (527)
 <223> n = a or c or g or t

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 cagggaccag ccccaatgcc cacatgggta ctgatagcca actggcttct tcccaagatc 180
 cccagcccac acccagaaca gagtcttaca aaagcgaaca aatacattta tcttcctttc 240
 catcccctgg ccagcagagg tgggggttaa acagttcatt ttaaaaaaga caacgactca 300
 taaaatgaaa acagaagaaa gaatccagag ctggagagct gagatgtggc cctggcgggg 360

agcacaatgt gcatgggaga ccctttctgc cataactcttg gagggggaag cgggtctttg 420
 ggctccggcc catggacacc aagcccacga gtcccttgga gctcatggcc acatggtcac 480
 aactgcattg acttcttana aaagcatctt aagactgtgt ccctgng 527

<210> 316
 <211> 535
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA925258

<220>
 <221> unsure
 <222> (1)..(535)
 <223> n = a or c or g or t

<400> 316
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 gaagatgctt cttcccaact ttgggacaaa gaaaaagggtg aaagcattct gatgaaaatc 180
 atcaagatca agtcaaattc ttataaattc ctacagctaa aaacgtctgt ctggatagat 240
 caggacagag gcaggatccc gcccaattcc ctccatcata ccaaaactaa tgacctttta 300
 gtcactttca agatagccag tcaccagtcc ctgtcttagc catagtcagg ctacctcac 360
 agaggctgct gctgctgcct cagtangagg agggatatct atactgtgtg tagaccaaag 420
 gcctggctga agtcccacag aagtagctga tgacaggcaa aggcattgtc actgaaagca 480
 gttgaatggt atggcgtgag atgaaagtat acagagccag ggctaataca tcaac 535

<210> 317
 <211> 510
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA925274

<400> 317
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 gcaaatgatg actgatttct agtgactttt aattatacgt ttaagactac agatcaagaa 180
 ttgtttgttt tccaatcata tattcttttg agattaaaat acaagtgtaa aacagggtta 240
 aattagattc accccaatga tttaaaaaac aattccaatt gaaagaattt caaacaccat 300
 gtatagaact caggacaaa agacaacat agaattcttt tacctttgag gtagcacaat 360
 aatgcttaat tggttttttt ttttaaaatt attattacaa tgaatttaaa acataacaac 420
 aaaaaacgac gaatctaacc ttgtctcaag gtgggctata tggttttctg caaatcccc 480
 atgaggtgag tgacaatttt cactcttttt 510

<210> 318
 <211> 543
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA925306

<220>
 <221> unsure
 <222> (1)..(543)

<223> n = a or c or g or t

<400> 318
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 tatgcaacca tgactgcagc aagaaccaca ctgaatggaa gcaggaagtc tggggctcaa 120
 gagtcaccag agagtggcag ctgggagatg gcacctcgag gtgcagggtg gaggctaggc 180
 ctcagggtgtc ccttaaccct tactatggag aggctgaggc cctcatcga tagatagtcc 240
 tctgactcct ggtccctggg tatttcctca tgaagacaga ttctggcttg gctgtggaga 300
 tgaaagagac tggccagggc ggaggaaagg gactcttcac agctcctgct gaggaggggt 360
 gggctggacg ggttcccttc cccatgattc acatcgatgg atgatatgct ggggacccgg 420
 gccttagtct tgttcagcct ctgggctcag ccctatacat actacagcag gtgctgagga 480
 caaggccttg aaggcacttg gcttggacct ccggggccctg ctanagaatg cttatctggc 540
 tca 543

<210> 319

<211> 508

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925384

<220>

<221> unsure

<222> (1)..(508)

<223> n = a or c or g or t

<400> 319
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 tttttttttt ttaactatta gcctgagatt aagcaagaga aagctcagcc tgtggttggg 120
 cctcactgcg cacacctgcg ggcacctgga cttcacagca gaacgagtgc cctgcaaagt 180
 cagatccaaa caccagtggt actcttgttg gcgtcagtaa tgtggatgga actctgccag 240
 gcctgggtcca caggatcatt ttcagttttg ttttgttttt tttttttcag agctggggac 300
 cgaaccacag gccttgcaact tgctaggcaa gcgtctacc actgagctaa atccccaacc 360
 cccattttga gtttttgaaa ctgttttgat cctcaggatt gaacctgggtg cttaccacag 420
 acaggaaagg gctctatctg tcacctccc tcccatgatc ttcanaggct aaaaatgcct 480
 actggaaact aacgacaagg acatttgc 508

<210> 320

<211> 598

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925541

<220>

<221> unsure

<222> (1)..(598)

<223> n = a or c or g or t

<400> 320
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 aaatgtatga acaggaaaaa aagaatcaca catacagtta ttttaaaaag tgaagggttaa 120
 tcttgggaga taccagttcc cctccccccc tccagagttc cagcatttgt tgtgggttaa 180
 cctctactga cctagcattt aaatggaaaa aaagaactgc aaaaataaag aaaaaacaaa 240
 gaaaccaaca gcataaagga aagaaacatc ttcctgctcg gatggagtct tccttcccag 300
 catctaatta ggaggcgtgc tgtgcggttg agaagcacia cttcagagtgt tatggatacg 360

ggccatttgg gtttttcac tcgtaatggg tcaggaagcc caaggtctcc agggcgctcat 420
tcttggagtc nactccagc agcccagagg agctacgctc gcttttgcct gaaaatactt 480
tcacagaggt tggcgcttc actcccagtt catcgagat ctcaaagaag ttctcctcag 540
tcacctccaa gggagcattg aagaagtgc gaacattgct aagggtgctg atgcgggtt 598

<210> 321
<211> 499
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA925603

<400> 321
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tattactaac actgctcacg gaggcaagcc tgattctacc tccaccgga ccacctacc 180
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actatgaatg cctccacca catctgcccc tccaatctta tcatattcct caataagaaa 300
tatatttgat gttttttctt tacttgacga agtagagtta ttattgcaga aatgaaaact 360
caatgaccaa ctttaatttt aaaactagaa aagaagaaaa aatgtcatca ataatgaact 420
tgggtagagt acaacaagga gtatgagtta ttttcaaagg caacatatcc ctattttgta 480
catatttgca tataaaagt 499

<210> 322
<211> 457
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA925807

<400> 322
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taagtggcag gtgggtatat taaagggtgt ctgttctcat agtttcacaa cacagacaat 180
tcctagtaca ccttctctat gacaaacatg aatttgctgg tttctctttg taaaagggtga 240
tcatgataca cataattgca ttatgaggca ggatgatgta atacgtaaga caatgttttc 300
aagctgggtt tgtagtctt gatctcacat ccatttacag ttgctttgcc atgtgatgca 360
atgtgtccca catagacatg gacaaaacaa tacaactgcc gtcccttgge gggagacagt 420
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<210> 323
<211> 489
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA925869

<400> 323
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ataccctctc caaatttcaa ggtttggatt ctgataatct gtacataatt tgggttaatta 180
ctgataaagt agaaattaca gtcacgtttt taatgagaaa tgacttggga ttctctggag 240
ctcttaattt tcttataaac cagggaccag caaacggtt ctgacgaaga tcacagtaga 300
tacttagata cttgaggtgc tgtgggtcat gaagtctgtg ccatggccac tccaagccat 360
aggaacaag ttccgctcca ctgcaggaag gctccataaa acattggtgt ttgaacttta 420

gctgtcacat caggaaaagt tataaacact ggtgcttaaa cttcaggcaa ccaccctcgt 480
gccgaattc 489

<210> 324
<211> 405
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA925961

<400> 324
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ctccacatat tttattagct tgtcctaccc tcttcagtat ccaacaaacg cttttacaaa 240
agtaatacga aacacacagc tctcaacact aactgggtcaa tgggaggaga caagcagtgt 300
ccacttagga tgacagagat tagaagtaaa aataatgtct gaaggcagag tttaacattc 360
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<210> 325
<211> 437
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA926109

<400> 325
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aaacaccgga gtatctgctg gaatggaata aaaataaata acttctgcta taaacacatg 180
aaaacatatc caaccattac ccctttaaac atatcgtaaa taaaaaatta ccagcacttc 240
tacaaaataa atattaagaa accattgaca tagttgaaat gcactcatat aaattaacaa 300
ctttaattac attacccaaa cagacatcgg ttaaggaatt gcatgaagta tgcaagggaa 360
ctcacaaaat aaaaataaaa aaaaacaaac aaacaacatc aaccacataa cataaaagggt 420
tttaaaacaa aacagat 437

<210> 326
<211> 314
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA926129

<400> 326
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tagggaaaac tacatggcct cagttcaact ctaggccacc ctgcttctgg ggcaagctga 180
ccctagtctt tgttttcttc agaactgttg tgtcaggcct tatcgaggcc agatgggttg 240
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cttgtcctca cagc 314

<210> 327
<211> 406
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA926193

<400> 327
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taaagtgatg tcagtaataa cagagtcggt gtcacagtcc ttggcattta cagtttgctt 180
tctgatcttc ctttggtctg attgaggctt gcagacagac tcctgtcctt gatgtctatc 240
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atagatttca tcaaacctct cattctgggc cacagtaaag tggtttttcc aatcacccac 360
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<210> 328
<211> 421
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA926262

<400> 328
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ttacatagc tgatatatct accctaacag aggtgggtca attacagttt tgtgattgct 240
cccgtaccg tgactgcaca tccacccagg gccagtcacg agaggacagc ctctcacact 300
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aaaacaagtc agtccagtct agagaagaac attccgggaa acagagtacc aacaccttct 420
t 421

<210> 329
<211> 512
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA926365

<220>
<221> unsure
<222> (1)..(512)
<223> n = a or c or g or t

<400> 329
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acaaagcagg gaatcatcag atttggcttc ggaggtaggg gagggaaaca gcaggaatcc 180
aaatgaggac agcctgggtg actggactgg gagggaaagg acttggtca gtctcctgtt 240
cccacccggg caagagccag ttgctcctca accttcagtg gccagaggc tgctcctggt 300
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gcgcagcctt gatgatcctg nggaggaaac ctgcaaagag tcccctggtg ccagattcag 420
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cctccactgc tcccagtgc atttgtcgt gt 512

<210> 330
<211> 588
<212> DNA

<223> Genbank Accession No. AA942716

| | | | | | | |
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| agaaacaaa | agacagaagg | acagagttcc | aacagaagaa | gctaacccaa | gaccaggctg | 120 |
| gacttgccgc | cagggggggt | tctcctggat | ggcgctgggg | cgggagccac | tgggctgggc | 180 |
| acaggagcag | cgggcaccgg | cttctcttcc | acctgtgcc | ggctggcttg | gaagtctgtg | 240 |
| tccacatttt | catgcacatc | actttctccc | ttgaggtcta | agaaatctcc | agagcttgct | 300 |
| tcagaagagt | tacttctctg | tgttccaggc | gactccgaat | cctccctgcc | acctgctgac | 360 |
| ttggcccaag | atgggggggt | ttcttcaggt | gtcccaaaga | tgttagaagc | catcttggtc | 420 |
| ttcctcacgg | gctgttctgt | tggctcatca | aaacctaatg | aaaaattgga | cccaccacct | 480 |
| ggaggccgca | aaacccggga | gctgttctctg | ctgttaggg | ctacaccctt | gaagggtggtg | 540 |
| gcagtggtca | tggcgcaaaag | gggcgaggta | gactggccct | gaaaacgc | | 588 |

<211> 639

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AA942726

| | | | | | | |
|--------------|-------------|------------|------------|------------|-------------|-----|
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| ctgagggtcct | gtttttttcc | cagttgatgc | ttttataaac | attcccagct | attggggcct | 120 |
| tagatgtggc | tcagcggagg | gaggcccagc | atggccaagc | ctgtgtggaa | cacctcacgt | 180 |
| actgcctca | aaagctgtag | gcgagcaaac | atctgaccaa | agagggtgtg | ccgagggttc | 240 |
| cctagaatgt | gtacgcgggt | atagtatgag | ctgaaatcca | tgctgagctg | caccaggaac | 300 |
| ttgcacacca | tctccgtgcg | aacagggatg | tggagccctg | gcgtgctagc | cagggtcaca | 360 |
| gtctggctca | ggagggtccag | gaagggaagg | acactgttga | aaagcagcag | ccactcacc | 420 |
| tgtgggagac | aagagtgtct | ggaagaccag | cccaagccct | ctgcttgtgg | ccgttcactg | 480 |
| agtaacactc | acctcatcat | ggagtaatga | gaaatccaga | ctgctcacga | cggggaaagt | 540 |
| gggatacaga | ccctgttcca | tccgtgtttt | tgaaccctcg | aagagcgtgg | caaggcgggc | 600 |
| acaqttatac | atgacaaaacg | tccactctt | cgtgcctt | | | 639 |

<211> 589

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AA942731

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| atacttgcaa | gtgtttggtc | tctaggactt | tattctgcta | gtgatgggaa | aatgtgaaaa | 60 |
| caaataccct | tccatgcaga | acatcatgaa | ggtaaaatta | aaccaaaata | ttataacctgt | 120 |
| atcaaaactc | tttcagagtt | cttagtattc | gtggagggta | ctttaaaatc | atatagcatg | 180 |
| tggcaaacc | atgccaatgt | ccatggcttc | ctatggaaat | gtttggggag | atacatacat | 240 |
| atatatatat | atatatataa | tttattgccc | ctttcagaaa | aatcctaata | gaatatcaaa | 300 |
| tatatcccaa | agttgtttct | ataaataaga | ctggtggtta | ctgcattgct | cagagcagat | 360 |
| ttggaaggaa | ttcgaagtga | aacaagttgc | tcttcctgat | gtgactatga | ggaaaggaga | 420 |
| ggccctgatt | atccaagtgc | tttgggctgg | tacagtcact | aacatcccc | acttggttga | 480 |
| aaactaggaa | tgcataattat | ttaaagagtt | tatatacatg | tggtgaacag | ataatgtttt | 540 |
| aattgaaaga | gaaacagatg | tgaacaccta | atggaaatca | gaaccaaaaa | | 589 |

<210> 333
 <211> 452
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA942745

<400> 333
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 tcctcccaac acgtgggttt gtcccttttt tttctttctt tctttctttc tttctttctt 120
 tctttctttc tttttttttt ttttaaggcc ttcagataaa aacgaaggat gaaattgtag 180
 ggggaaaaat ggcgggatgg gggcggtggc gaggaatagg gcgtggctac cgcagagccc 240
 attcctcaga ctttcggtca tttctgcca gccctttgcc cctgccaga gctttcctaa 300
 accacttttt aaaacctaag gtcaaaacac agccactact ctctcagaga aagaagacaa 360
 ggaaagggaa aaaaacaaaag gtgtcctaac gtaaagcacg aaatgaagcg gggaggggga 420
 gtcccatccc aaagcaaaagg ggatgattgc aa 452

<210> 334
 <211> 550
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA942770

<400> 334
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 cctgtctgtt tcttttagagt ggtcacttta gaaagcattg ataggcggtt gttgaacgtt 120
 gccacggaaa cacattcaag atgttggtgg tcttctttgc tgcttctttt ggggttaaaat 180
 caacatgaag cacacaaaca gaagcatacg tacatttgca gcaaaggccg ctgcaaatac 240
 aaccccaaag agagggtggg ctcagcgatc catctcacag caatgcaggg agcctttgtg 300
 cctcctgcac aaaattagca cattcagggg agacgtgtgc ctcaaaaagg gccatgtgga 360
 aagagttatt cactctcatc caaaaaatgaa gacagtctga gggacaaaat tgttcattga 420
 ctctgtctcc aacgtctccc ccattcccca aacaagccaa tgctcaagac acctaccaa 480
 gccatgggca aacttgacca tgagcaaaca atatgaatga gaacagaatg acgtaatgcc 540
 gttgtgcctg 550

<210> 335
 <211> 503
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA942889

<400> 335
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 agcatgcact tggcaagcgc cttcgctggc attggcttcg gaaacgcggg tgttcattctg 120
 tgccatggca tgtcttacct aatttcaggt ttagtgaaga catacaaagc caaggaatac 180
 aatgtggatc accctctggg gccccatggc ctctctgtgg tgctcacctc tcccgcatgt 240
 ttcaccttca cagcccagat gtttcagag cggcacctgg agacggcaga aatattagga 300
 gccaacattc gcaccgcaa gatccaagat gccgggctgt tgttggcaga tgccctccga 360
 aaattcctat ttgacctaaa tgttgatgac ggtctcgctg cccttggtta ttctaaggat 420
 gacattcctt cactggtgaa aggaacactg cccagggaaa gggtcacgaa gcttgcgccg 480
 cgtgcccagt cagaggaaga ttg 503

<210> 336

<211> 506
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA943131

<400> 336
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 ttaggggcag agctgcctaa agaaatggtg gctggagcga actgcaggga catggggagt 120
 ggagatggca gcccaggcct gcacagcgac acacacccat gcaaccaca gggctactgc 180
 cctgtcact ccttagacat gttcttgatg gtcttggtgct cctttatagc tcgctcccag 240
 tcaactgcctg tgaattcctc ggtgaccacg ctgcgcacag tgccttcac caggcagtgg 300
 ggtgcgatac caaagccccc aggggttgag cgtggggat agaagctctg gacaccgcat 360
 ctcttacaga aggtgtgctg ggctttgtgc gtgttaaagtg ttaggtggt tatgctctca 420
 gcaccttca ggagtttgaa gcgagaagct ggaacaatga agtgtctatt ctgcttcttc 480
 ttgcaaatgc tacagttgca gtcaac 506

<210> 337
 <211> 618
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA943564

<220>
 <221> unsure
 <222> (1) .. (618)
 <223> n = a or c or g or t

<400> 337
 cctaggtcag ctcccaccag tctgtctggt ggcttgggtc caggccagag ccatgacaca 60
 cattagatgc caatgactct aaaggagttc tgggacaggc cagccagcat ggctctagca 120
 caatctaggt gaaaagtctt gtgaatggtg gcacacacct gtgatcccg cacttgggac 180
 agtatgggga tcaggaattc aaggtcagcc ttggttatat aagcagtgtg aggtcacttt 240
 gagtatatga tacattgctt caagaaacaa aaattcagga ctggagagat ggctccttgg 300
 ntaagagcac ttaggaggat ctgctttttt cctagtaccc acagcacttc agtaactaaa 360
 gatccagggt tccaacgctc tcttgtgacc tctgtgggca ccaggcacac acatggcaca 420
 catacacaca tgagggcaaa acggaaaata cataagtcta gacaacttca ctctgtcggg 480
 ggataaagct cccctccctc gggccagggc tagctccctc tatgcagcca tccggaaaca 540
 ccacacggca accagagtta aggagatgct tccttttgga taaatatatt atatacatcc 600
 aaaacatgac attaanat 618

<210> 338
 <211> 513
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA943730

<400> 338
 ccgctctcgc cgccgctgag gcacagcacg tcggggcgcc cgagggtgtg gaggccgctg 60
 aggtggagga gcaggaagag gctgatgagg aacaggacga ggaggaggaa caggaggggc 120
 gcggcgggcgt gcgcgacgtg gggctgtcga gcagcagcgg cgactccagt cccccgggcg 180
 gctggtggtg gcccgaccgg aagccggaca aactgacgct gtggtgcagc tttggccgcg 240
 gctcccgggc aaagcccagg tgcagcgctg cgcgcgcgcc aaacgctcgc aggtccccgc 300

caacagagaa aagagcaagg tgtggaggct tccagtgcag aatgggggtcc ctggttggga 240
gaccccaaag accatcggtg tatttacttt ctgggagggc agaggatggt gatggagtgt 300
tgtctacagt ggaaaccaag gattcaaaat gtacaggggc aaagaaactt aagaaaatgg 360
agtaaggcat tctatctatg gaaatctgta agtcatttcc caaaaggatt gggaagagga 420
ccatttccta attttacagt cagaactttg ggaccattga acaccttgaa gtccccagct 480
cctacttcct tacaataggg cagagctgag aactgaacga atcttgatg ccagttttca 540
agctgactgg gttt 554

<210> 342

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943800

<400> 342

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atggcagcat ccagacatgg tactggagaa ggagctgaga gttctaaatc ttttttgaag 120
gcagacaaga ggggactctc tccaaggca gccaggagga gggactctcc tcacagggtca 180
gagcttgagc ataggacctc aaagcccatc tccacagtga ctcaacttcc ctaacaagcc 240
atacctccta atagtgcctt tggatctctg aagttatgct ccataacttcc tgccccagct 300
ccagcgggtca gctctttatc aatcaaaaag ccacattcca gcttgaacca atcagtagca 360
tgacagcgcc caatcaatct cttagggttg ccctttggca ctgaggactg cttgaccttc 420
accatggcag cttgcctttt aatatgatag tctcagaaaa tctttctggg gtggtgggaa 480

<210> 343

<211> 615

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943886

<400> 343

gccaaagatt caaaatgggtc aacataaaaa aaaaagacat cttgataata aatactgctc 60
ttggggctgt aataaataaa agttttatta acaaggaatg cacttttcca gccacaagt 120
tattcaaaaa taaccaaaaa aaaaaaatat gtatggccat agttcacagt taagcagcca 180
aacaaaagct gctctgattg tagcctttca acagcgaggg agcttcctcc cttctccctc 240
cccttcagga agttttattca cagttccaag tcttccaact gaaaacactc tccacagaga 300
gaacttcaga gtcaatgctg ctgtctgcaa aattgtccga taaactttgt aaagacagg 360
atctcaagga aaactgtact tggctccaca cttaagattg cccaaagtca actgtccacc 420
ttaggctggt ctggttccag cagtcagca ggccacagac gactcgtatt cgtaccagca 480
cctgtctgat ttctctaaca tgctccgtta tccctccact ggcttcctg ttgatctcac 540
agtggaaaag agccccacg aggtccgctc taaaagagg ttttcagtta catctctgca 600
agagcatggt caggg 615

<210> 344

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943892

<400> 344

ggacagtgtg cattttaatg ttaaaaccca ctttgtgttc tcaaataaaa agggaatttt 60


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ggcacctttc ttcagtcagc aatgaagtc agagaatat tcaagacttt gatggttcca 240
gaatttttaa tgaaagcaag actgttgctc agatctattc agataagcag cagatttttag 300
gattttttta ttactgattt tgttactagt ttttttttta tcagccactc tcctatctcc 360
acactgtact cttcaccttg actggcctac tgctgaagg tggagaccac gccctgtcca 420
tttaggattc gccattcct gtctcttcca actcaaccaa ccactcgatt aatctttcct 480
tgctgagat cagttgaaag cactggagt cagggaggag agggaagggc caggctgggc 540
tgccagggtc aggtctcctg tgcactgaag gccacacana caccatgaga aggacctcgg 600
aggctgagaa cttactgctg aagacacgga cactcc 636

```

<210> 348

<211> 604

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA944157

<400> 348

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aaccaatgaa tattatccaa aattagagat gtaattgtaa tttacttgta caacatgaaa 60
ttatgctaata gggaaattac caaatactca ttagtggtgt ttcacattgc tatatgaaca 120
tgtgtctca actgctaata ataaacgtta taactgattc gatcactatg aaaaccatt 180
ttgcaaatgg ctgttcctgt ttagaaaaat tcatatagct ataaaaatgg actaaacca 240
ctttaatcct aacctacaaa tagactatta acagcaaata taactggtag cctctcaaca 300
ctgtaacaac tgggtgcagc ataatgtaca caatgcaaat agaaaagaaa acagtaaac 360
ccgagggag tgcattcttt tagcaataag gactattact ctgatgcttt ggaaaagtga 420
acactcatac ttcaaagtct gagtggtaag gctgaccgtc tctccctctc acatgtggaa 480
ggcaattccc tcgctgattt tgaagcatgt gcacaaccac tgtacaacag tcacttcaag 540
gttaaccagt tgtcttttgt cctacagagt ccaaaaaata tattaaccct ttccttttta 600
gaat 604

```

<210> 349

<211> 686

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA944158

<400> 349

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agacacaaat aataagttcc atttttattg tatgggaaat atggaccaga caactttaaa 60
agatgaatgc agtgtttctc aaagatatcc aatcttaagc atgactggag gaatcgcaaa 120
cagatttagg ctcagtagaa aagaagaacg tatactttgg agctggggat gtagctaaat 180
ggttgagcaa tatgtgaagc cctggggttg aattttaaca ctgaaggata aaaaaagaag 240
aaaaaaaaag ccccatgttt taaaaccctt accaatcagg caatgtggga accatgccag 300
ttacagagcc cctggacagg gcaccagact acctaacaat gagacatttg actgggagta 360
agacgttatc tacagaacac agttttattt aagtccaaaa cacaaaacca cttcctttta 420
aaaaacaaaa aatgtattgt ttttactgca cgaatacctg gggcttctca caaatgcaga 480
ttatcaacct tcaggctcaa tggttcagat acacgaattt actacatcag aggagatata 540
tataaaaaac acgtctttca acgtcaccta tttggggctt ttctctgtaa gcgcaatttg 600
tcctcgacca agaattcatc ataatgaagt caaacctga cctaagcagg ctttgaaata 660
gaaccttttc aactaacaag aaaggg 686

```

<210> 350

<211> 587

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA944165

<400> 350

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agccacaagc acatttatta tcctctggaa cacaagggcc tccttcatag cagcggcaca 60
cagaaaagaa tcaatctcag gagggagcca cactgcttcc ggaagcaggc ccgtgggggtg 120
gtagtgtcat ggggtggcagg aacaaggcct ttagcttgcc tgacaggctg gcaatctcag 180
gatcctgggc ttcgtaagac ttgaccaggc gggcaaaactt aaggagacct tccccgtcgc 240
agctgaagcc ataggcttta ataacctcct gctggatctg tgtggctaca ggcagcacga 300
attgcagcat cttgcccata tcgttgacag cattgtctct agcctcgtcc atacgcacgg 360
cgttctctgg ggccgagaac gcttggatca cctccgcaa gaccacctg gcctgctctg 420
cgctcagagc cgcaggctga gccgaggcgg acgccatagg acgccactcg gtgcttgaat 480
agtgtgaaca ctgagatccg gaggagcctg cagccagccg cctccccac ggctgcggac 540
tagtggaggc agaaaggaag ctgtattgca cgaggcgaa gttcccg 587
```

<210> 351

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944269

<400> 351

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aaagagcaca tgtgcatgag tttaaaaaca gaagtgaat gtaaggagtt agaaagaaat 60
acaaaagaaa tctgagacac gaaacaaaaa aaatacattc tcgagaattg aaataaaaag 120
gtatctcact tactacaaaa tcgttatattt aatgtattaa gcagtctttt gattcagatg 180
cagcacgaga ctgagttatt cattatcagg tcagaccgaa actcacagac taaaggaagg 240
accacagcat gacccaatgg tcgcaggaag ggatgatgtg agtggagggtg gagcaatggc 300
catgaggtag caccataaat aaactcata gctcatcagc atccagcagt gagcagatcc 360
accacttcag ctggcctcct tggacgactt gcaatgaggt tcttcacatt cacagagcag 420
aactcatagt tccaaaagcg gtttctcact gtctgtttt tcctcagctt catcttcaga 480
tcctgcttca gactcgggag gggagtaaaa c 511
```

<210> 352

<211> 486

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944289

<400> 352

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aaaaccaa atctttattctc tagtttgtaa aggaaggtaa atgggttgta cgtttcgatc 60
caaggaacaa aacaagaccc agtaggcaga agtcatagga aagcagaacc caatccttgt 120
aagaatttct aacaattaga cagtagaagc aatgccttct ggaggtaacg gtgaccagc 180
accagggtgc atgggtagag gctggcatct ataccctgga aaccttaaaa aggaaatcta 240
cccaggactt tccctgcagc caacccccca gctagtcttt cacataaccc ctgaagctct 300
gaaaagagtt ggggagggtc aggggtttta acaaaatcac caggaaggcg tatatttggg 360
gaagagcggg cagataaaaa gccaggcagg taaaggagta aataaatgcc ctgggaggat 420
aatatgcaca aaagagatgg aattgctaac tgtggatggg tcgctacaca tccgggggtac 480
ctccgc 486
```

<210> 353

<211> 459

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944304

<400> 353

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gaaagtaatg aaataattcc aagactttta ataaccagaa tttagaaaag gacagtattc 60
gtagaaaatt gattaagtgt acagagatcc aaaaagaaaag attcaaagca tagcaaagaa 120
agatcgacgt agactccaga tggaaaagtga tttgaaagag cacagtgggt gcctgcaggg 180
actaccagag gctacgggtgc tgtctccttt acaaagggcc ttcgcaagc taacgggcgt 240
ttccctggag tggaggggaa ggtggtttca cttggtttca ttcacaaact atttggtcaa 300
agaaataagt aaagctaaat gaaagcacat ctggtagaaa tctgcagtcg tgagcgttgt 360
caagatgtgc ttggctctcg cagcacctgg cagtgggcag caggacacag gtcggaagct 420
caggggctct ctgtcgtctg ttctggaggt ggatccgtg 459
```

<210> 354

<211> 539

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA944380

<400> 354

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ggtaaaatta gactaccctg ctctgtgcttt ttttttccag ttctgaaaga cttatagtgt 120
tcaaggtgaa aaattggcta ctggaaacca ggtaaggccc tcacaatcac ggtgtacgaa 180
atatattcac acctgtcaga taccactcgc taatgctgct gttctgagca taagctcatg 240
caaaaacctc gtgtatgttc ttttggtttt cggtgacttc acaatttgct ggaagaacat 300
ctatgaagaa aggtcttctc acaagatggg atcagggtcat ggagatcaaa ttcgggtctcg 360
aaggaaggac ttttttcaaa aataattaag gcagccagca cagccaattt tgaggtcatt 420
cccttgatga ggtacttcga gccagtctca aggtctgtgt attcaaagca atgcaaaaca 480
aaatggtaac cagaatgtgt gaagtgactc tggtagtaga cttggggaca gaggaata 539
```

<210> 355

<211> 542

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA944397

<400> 355

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agccaataaa ctgagaatgt ttcttcacaa tttcttttat tctcctttcc tccaaatact 120
cagtttggtc ttctttttaga tgcaagataa ctttggttcc acgaccatt gggtcacctg 180
tgtctgtcct cacagtgaag gatcctccag ctgaggactc ccaggcgtac tgctcgtcat 240
cattatgctt ggtgatgaca gtcactttct cagcaaccaa atacgcagag taaaaaccaa 300
caccaactg gccaatcata gagatatctg caccagcctg caaagcctcc atgaaggctt 360
tgggtgcctga cttggcaata gtgccaagggt tattgatcaa gtcagccttg gtcattccaa 420
tgccagtatc cacaatagtg aggggttcgggt cttgcttggt gggaatgaga ttaatgtgca 480
gtccttccc cgagtccagt ttactagggt cgggtcaagct ctctgtatctg atcttatcca 540
ga 542
```

<210> 356

<211> 534

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA944401

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<400> 356
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aggtgggtgg agcccttgct ggaggaacaa agcaaggata ggggaaaggc agtggaggaa 120
ctgggggctc tgggcaccca gaatccccga ggtctcatct tgacacctgg gcagtgaggt 180
ctttcctcac tgggtgcagc ttcgtacctg gacagtgggc agctcagcag gggccaccat 240
tgcccttcct aataagccac taaagccctc ttcaggtccc actctgcagg gggatgggat 300
aggccaggct gtggtgatgt cttctctaata gcttagactg gtagttaga ttctgaaggg 360
ctcctgtggg cttctctggg gaaggagca ggggaattcc atggaagcag cttacacca 420
ggtcaattag gtcgcatcag gtcagctcgt ccggggcccc aggtctcagt aaagtcatag 480
tcggtagcaa gatgggaaga aggcagaacc agtcaggatc ccagtggagg gttt 534
```

```
<210> 357
<211> 636
<212> DNA
<213> Rattus norvegicus
```

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<220>
<223> Genbank Accession No. AA944413
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<220>
<221> unsure
<222> (1)..(636)
<223> n = a or c or g or t
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<400> 357
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ctttttatgt tattcgaata aaaaatacat tcatacagaa atataacaat ctgcacaaaa 120
acaatttcaa ataaaatctt gtaaaacaaa atttttacaaa aatcttacia agattcttta 180
gataacaggg tgcttcaaaa aaaaaagaaa taaagaaatt tcactaatag aaattttttt 240
tttaaatttc aagcaaaaagt ttctgcttga ttgaggctca gctgtcacct gaacagaatg 300
tactcgctta ttattaaaaat tacaggcatt gacacatacg gcacccagcc ccacccagtc 360
caacaacatc tatgtgtttc ataagtgaga caagccagca caagtcctcc ttctcttctg 420
tttaccttct tacttaattg aattgttgtg gataagcaca cagcagggcc aaaaaaggga 480
gttttccaaa acccagcaaaa tcaagtgcga ggattttgaa ttgccaacaa aaagtgcatt 540
ttccctttaa gcaaaacgaa accagttccg tagagaaatg tattcgctcag gccagatacg 600
acaaaacaac acaacaacaa caacaagana aaaaca 636
```

```
<210> 358
<211> 599
<212> DNA
<213> Rattus norvegicus
```

```
<220>
<223> Genbank Accession No. AA944572
```

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 tacacaagat ttctctgtttt attatctctg gacatctcgt gctgtgggct actgctgttg 420
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<210> 362
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 <212> DNA
 <213> Rattus norvegicus

Figure 1 consists of 12 maps of the United States, arranged in a 6x2 grid. The left column shows the distribution of the percentage of the population aged 65 and over in 1990, and the right column shows the distribution in 2000. Each map is labeled with a number from 1 to 12. The maps show the percentage of the population aged 65 and over in each state, with the percentage increasing from 1990 to 2000. The maps are labeled with the year 1990 or 2000 and the percentage of the population aged 65 and over.

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gtagatagat agatagatag atagatagat agatagatag atagatagat aatagataga 240
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<212> DNA
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cactgaaaga cagagtgatg ggtctgtgtg gttggaactc aaaatgacat tgctctgtca 240
gtgtgtgctg tgccggcttg atggctttga tgggggaggg gtacacttg ctggtggtac 300
ttccaaagggt gaattctgct atgtagggtt agtggtcagg gcagccattc aggctgacag 360
aaccttggac ttctgtggct tctgtgatgg ggacagggac atggttgact tgaatattct 420
tcagacagcc aaaaaatgag ttccaca 447

<210> 382
<211> 476
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA946187

<400> 382
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aatgattcta tgttgtttta tttactttta gaatgtttca aatagcattt caatgttacc 120

aaaatccttag ccataattgt aaacttcaaa accttttact ttacttttta catgcatttg 180
 tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtacc atatatgtgg tactgtactg 240
 tatgtgaatg ggtatctgaa aacaatgcc a gttctctcct tctactgtgg ggtacagaga 300
 atgaactcag gtcatacaagc ttgggtggcaa tcatccccca aactgaacc atcttgctgg 360
 ccactttctaa ttttttaaatt taccatggct ttccaatgga cattttaatt gattggggcac 420
 agatatgaga gacagagaac caacttttgg ctgcatttaa agcatttact aatctg 476

<210> 383

<211> 465

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946189

<220>

<221> unsure

<222> (1)..(465)

<223> n = a or c or g or t

<400> 383

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 tccctgctac acactctgtc tcagaaaacg ctcaaagagt agggccagca tgtggttcag 180
 gcatgagggg acctgccctt ccctccccag gatgaagaac agggctgggc cagccaaggt 240
 gcttcttcca ctgggtccaa gagccagggt accccaggct attccactcc tgggctcttt 300
 ggggttgccc cccggctgct cctccaagcc acacagttaa ggccagagtt tcactttcta 360
 atgcagccca tctctgacag tctctgttcc ctangcacgg tggacacagc aagacacagc 420
 acacagacta attccccagt gtttggtggg acacgaaggg aggac 465

<210> 384

<211> 532

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946361

<400> 384

acaagttaga atcaagaaaag aaaagacagt ctggggggcca accggagagg tgactaaaat 60
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 aaacaaaaag agtccctct tcttccctcc ccatggaggc tggagggcgg accacggcgc 180
 tacaccccca gccttaccac ctactttaa taaattaaaa cctcaaaaca gggcccttag 240
 aagtgaacag gacagctgca gctcaggggg cttggtgcca ggcatatgcc cacaccacc 300
 catacccttg cccaccccc atcatcctca acagggacat cacaccaac agggctagga 360
 attcaatctt attttgtctg tgtccctgca ttctcccca ctgcagagcc agctctccta 420
 tggaggggtg agatgaagaa gcgtcacagc aagggaaaag tggggaaggg tggtagagg 480
 gtccggctct gcggagcctt cctgccccat ctggcctggc ccttagcccg ag 532

<210> 385

<211> 658

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946368

<220>

<221> unsure
 <222> (1)..(658)
 <223> n = a or c or g or t

<400> 385
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 aatccattta ttataaatta catcttttaa cactataaca gctctctgaa gttacattag 180
 ttgtggctga gcagaaagag aaaaacctac tcagttttca aaagagctag gcagcctgga 240
 acttgacaac atacttaaaa taaagagcta aaatgtgcta aaaatagttc atttcatggc 300
 gaggaacaga acatataagc tctgtgtaag aaagtaaaaa gaaaaaata tctgtgata 360
 ctggccttgt tgttgccaaag gacaccagag agggagaggc ttaaacaata tattagcaat 420
 ggttcataat tgaattgttc atttttcac cttaaatctt taaaatgatg taatacttat 480
 gacatatcat gtgctgacag tcacaaggaa catttgctat aaatgaaagg gtcacccag 540
 acatgataac agtttacttc gatgaggaac aaagcgtttc ttagaatata tacattcttg 600
 aaatttgcca acangaaaaa aaaatcagta aatcagaacc aaagaagata attagttc 658

<210> 386
 <211> 527
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA946379

<400> 386
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 ttcaataaag tataaaaaatc tgtttatata cagtgaagta taataatctt taattgggaa 120
 acgtatttgg tactcctgat ctgtttatat taaaactgtg ggggaaacga atatctcgg 180
 aagcgctaca tttccagtcg atcgcacctg gcacggaaag cgtcattgca tcttaggtcc 240
 tgcttggtat tataaaagac taatttgaag tcctaggatt caaaataaac atcatttgga 300
 ataatagata tatacatcaa aaatacatct agaaaggcat tggttagtgc tattaaaaag 360
 ctgtgtgctc aggtactctt ctccctacag gcgaaacccg gtggaaatgt ttgaattccg 420
 tttctagcaa tttgtctctg gggaagggtc gtgaaagtt acctgggtcat attcttactc 480
 ctcctctcca ctgtccatgt caatgtctac ttccctcgtg tccacgg 527

<210> 387
 <211> 594
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA946428

<220>
 <221> unsure
 <222> (1)..(594)
 <223> n = a or c or g or t

<400> 387
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 cacacatcca ttaactattt tctcctaggt ctagactag aacacaaagc aataagagct 180
 gtaaccttac tttgaatagt gaggaggatc ataatacataa cttggccttt atctgggttt 240
 accacgaaag cagttagcaa acagtgccgc acagttatgt tttagtcaaa aatgagggtc 300
 agacacaata tgggtcccata cggtcctatc tctttgtgac atcataagca ccttatattt 360
 tttaatatatt gttcaatgga actccccggg gtcatacttc tcaaaatcca tcccaacaag 420
 tgggtgcatgg ctgcaaataga tgatgcttgg agaggaatatt agctgtctac tcagtctgca 480

aatcacaatg tgggtggcctt agtagttcta atgacttacg tgccaggaaa ggggtccccct 540
tccccatttg cttaaaaaga tctagctgtg ccagtgccan aagttactta cttt 594

<210> 388

<211> 680

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946441

<400> 388

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tgtctgctca gggtgcctga atgggttttt actcagtacc accaactctc tgggaactgt 180
gagtgttaact gccagatcat aaattgttta cattcttttt gtaaaccatt ttattaagaa 240
aaaaaggtag atggacataa aatatgatta aaaactgctt ttccatagat ttctgaactt 300
gcaaaagagg cttcagttta atgtgaaaat aagcactttt tttttttaca aaaaaattaa 360
cgtattttatt agcaagggtca tttacacagc taggccctgt catttcattt gttgattttg 420
tttttaatat agattctcaa taaaacaaag agcatagagt aaatttaggt aactagctca 480
atgccttcac gtagtaactt cgtaaggctc tcgtaagtaa ggctgtgtac tttgttgtgc 540
tccattctgt tcttgccagc atagaactaa atacaatgca ttcttgctac acacagcttt 600
acagaagggg atttatgaag ttttagaagg ggtgaatgat tattttcact caggttgac 660
ttaactcctt taagcaatct 680

<210> 389

<211> 529

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946466

<400> 389

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tcttctactt cacagtctaa gtctgtgccc ttaactccct gcgtgggtggc ttgttaagg 180
gtgcattggg agttaaggag ttgtgggttc acagttgggg agaggactga taccatcat 240
caactgaggt gttcaattgc aggccacagt tgactttcag cttttctgtt ctccctaata 300
ctagagtggg agtctgagac cagaatacac agtcacctcc ttctccaaag atagcaaaca 360
ggctacggta ggctgcagg taagggtggc cagaggaaat taccaatgcc atggcctgtc 420
ccatgaccat aattgggccc aacttcccat aaggctcttc tagcaaaggc ttccaccact 480
ctccatgatg tagccgcagg aaagacaagt ctggacagat cgatgtttc 529

<210> 390

<211> 557

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946476

<400> 390

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atttgagaag ccaggaaatg ttctttcaag gggttaggtcc gtgcaaacac caagtattct 120
gccactaagc tacatccaca accgtctagg ggagttttat ttaagaggca aatgtggaat 180
aagccttgaa catgggatcg aattaatgat gaaattccat ggtctcaaaa agctacatgg 240
aaggttctgg aagccaaccc tgggtggtctc caaccctggg ggaaccccca gaccatttgt 300

acggatctct gagacacact ttgtgcaggg gctcaaaggt gactcaaaat gcagctgctg 360
aaagtctagc tcaccagcag ccagacggca gcaccaagcc tggagcttgg tgatgcaagc 420
ctcagaagac tccggaggct ttgtcatgtg tggctttaga agccaggcat ctgttgtgtg 480
tgggacactt gccagattt gatatcacgg ctgtgctcaa gggctcgatg aaattttgtt 540
ggctgcgtag aacaaag 557

<210> 391
<211> 654
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA946503

<400> 391
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acaggtggat ggggagagct gatcaaataa gagggatcag atgcttgggtg gaatcatggc 120
tgggtggggca gccaggtgat tctctggcaa caggaaagat ggagcggcag acagacaggt 180
gggacctgaa ccatcaggcc actgcacatc ccagtcagcc acgctcaccg tctgttcagt 240
tgtcaatgca ttggctcgggtg ggaacagaga aaacgatgtt gttatccttg aggcccagag 300
acttggcaaa gctgacgaat cgctccttca gttcatcgga cagccccttg gttcttccgt 360
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actggtcgta gtcagtgtcg gccacttgca catcgtagct ctgtatctga gggtagctgt 480
gaatattccc cagggtgaaac tggccaggcc tggagcttgg aacgaatgtt ctgatccagt 540
agcgacagcc ctggcccctg acgaggatgg aagtgacgtt gtagctattg tcttctgtga 600
actcatagat ggtgctgtac atggtaaagc ggctttgtct ttctttctg accg 654

<210> 392
<211> 437
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA955071

<220>
<221> unsure
<222> (1)..(437)
<223> n = a or c or g or t

<400> 392
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ctcttcccaa gaactgccag aaagatctca gccctttaag tagcaaagaa gggtcacctt 180
taacaacat acaaaactcc acctagaaaa gtctcatgtg tagaaaggtt gtagttatta 240
caagcatcac attttgggga caggaaggga agtcagagtg ggagacgggg gacagtgtgc 300
agggtanggc gacacacaca ccagcccagg ggtcactctg ggtgaggaag ctacagccga 360
ggagtttcag gtgatctgca gaggggtctc caacatctcc atgangaagg tgtcaatggg 420
ggtatcccca atgagct 437

<210> 393
<211> 298
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA955249

<400> 393
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 agaaaactgt catcacagag atgtatgtct tctgcttcac tggccttgac taagcctttt 120
 tcttgcaaac acctgctggg gctgtatgta tagctggatg gagcccttca ctggttctag 180
 accacgcacc acaagcatca cagggaaaat aattcgtgta cctctgaggt aaattctaca 240
 aaaccaagag cattcagaca catgcttttg atcacaagga gactgccttg agaataatt 298

<210> 394
 <211> 408
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA955443

<400> 394
 tttttttttt ttttttttatt ttcttggtgc aaagatttat tgctgaatct gtagtttagct 60
 aagggaagga gagcttgctt ctaccagcaa cactgtctct ggtctgcagg cttaagcaaa 120
 ggtggcagga gaagtggctg ggagatgtgg ggcattgtct ctaatgggtt aggcattggtt 180
 tttcagtcct cctcccaaag ctatagggcc tgaatcagaa gggacgacgt ggtcacatgg 240
 aattgcctgt aaccttacac gggatattct ttacccatgg ttgatcaata ggggctggac 300
 tctgctctga gccaccctc agtgtggctt cattattggt catccctatg tcaataacac 360
 tgtccttcga tacagcatat ctttaaccagc aagccctgcg tattgtgt 408

<210> 395
 <211> 495
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA955540

<400> 395
 tttttttttt ttttttttact agaaatcatc cagtcattta tttttgttta taccagagat 60
 ataatagaaca tattaaaaag aaaaaatggt tttataccaa catgttttta ttgtttgttt 120
 ctgactcctt ccatttagaa aataggaacc acgggtttcat taagctgtgg ctccctttcc 180
 tttaacctaa gcttagttta aggaaaactt cctcgtaca attatgtaac taactttaat 240
 caatacatag taattatgca agcctcaata cagtagctaa ctttttgaaa atgacttaac 300
 acaaaactatt acaactacc ttctttgaaa atttctctat gcaagtatca gaacagattt 360
 acttctcttt taattttcat ttctattttt ttgggtatgc cttagaaaag taaaattaca 420
 tataaacatt gtcaactact ttatttgtaa agtcaagata atggattatc tcctctaagt 480
 aattaaattt tgcaa 495

<210> 396
 <211> 387
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA955564

<400> 396
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 gctttctggg ggaacgcatg gcagtcacac gacaaaatac aaaactaggg ggctctgtct 180
 tctcatatcat catacaatat tcaagtattt tttttatgta caaagagcta ctctatctga 240
 aaaaaataaa aaaataaatg agacaagata gtttatgcac cctaggaaga atggggcaggt 300
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387

<210> 397

<211> 348

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA955729

<400> 397

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gcaaagtatg actgatttca agtgagtttt aattaaacgt ttaagactac agatcaagaa 180
ttgtttgttt tccagtcata tggtcgtttg agattaaaaa acaagtgtaa aacagggttaa 240
agttagattc accccaatga tttattccac aagtccaatt gatagaattt caagcacgat 300
gtctagaact caggaccaag ggacaacatc agaatcattt tacctttg 348
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<210> 398

<211> 445

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA955927

<400> 398

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ttacatatatt ttaccattta gaaaaatgca ctagaataaat aaacttttgg tcaacactga 120
agtaggtgaa cccaccacgt gtgcacatac tcaaagccaa actgaatttc agtttggagt 180
aaggaatgtg accagggtat aaaatggttg cctagatttg tcaggaaaat agcccagttc 240
ccaccatca gagagggtat cgaggtcttg gccactgaga agtttcaagt attctacctg 300
ttgggttcct atgccgagaa gctgaggcac gtccacagga acccaaagtg gctactacta 360
actgcctgat gggaaaaggt tgaaaacaca cataggaccc caggtaactg aaaaccagta 420
aatttggtca caaacctctg tgccg 445
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<210> 399

<211> 306

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA955986

<400> 399

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gtacgtcact cgcaaggaca cctcagaagc tcagcacctg ggctccatcg gcagcttgag 180
tgaggtagaa cgtggctgtc ccgctgtact gctcctgtat gtgatgcatg acaagggggg 240
caacagaggg ctcagcaaac gtgacagtgc agccgccgaa gccaccgcct gtcattgcgac 300
tgccgt 306
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<210> 400

<211> 392

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA956170

<400> 400

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tggacctgca cccacatagc actgtcactg tgaagatcac agaagaccaa caacctccag 180
attggtaatg ttgacttttag cgtctactca tatagccagt gtcccgcgct gtccctccag 240
cacagaagct catcctcacg gaaccaaaga gcgatctctc tctgagcact ttccaccgaa 300
tactgccat gaatcacatt cttgccaacc tccacacaga aatcaccacg gatcgtaccg 360
ggcgtggcgt cccctgggtc agtggccctt at 392

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<210> 401

<211> 283

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956247

<400> 401

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tgcttcgctg tttttacttt ctaaagagga aattaaggag gagtaacaca agaaatttca 180
acaaaccaga tgctttttgtt atgaaaagcc aggtttttct caccagcca ggcatttaat 240
ttgatagcca gaataaaaac aggaccagag aatgaggttt tcc 283

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<210> 402

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956278

<400> 402

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cgtcttcctg gagggcaaaa atggtctgga ccctgaaatc ctaacccaaa taaaaaaaac 180
cacaaaactg aggttccaaa aaagttaaag aatcttaatt ccttatagaa aagagagagg 240
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accctcctc ttacatagct gcctctgatg ggacaaagct tggggtatag catttaaaaa 360
ctccacacc ccattttatc aaaaccaaag agaacaaaaa atttcccttc cccccacaaa 420
acccaaatat atatatatac tttttcttaa aaaaaaaaat tccaaggcat taaagcgtaa 480
aagtgaatcc agaacaagag a 501

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<210> 403

<211> 379

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956301

<400> 403

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gctgaaggct tcacaccgta atgctcaaga gtgatatcaa ggggaaagggt gtatgtaagt 180
gcttctatct ccacagacag aagatgcgaa gtaaacaaaa tagaatggat ttaacaccag 240

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gtgttccac ggggaaaaga cgactttaaa gctcatcagt tgggtagaag acaacagagt 300
cccaccaggc tgcaccccca cctctcctc aggctctgga gtaggtgagg catgccagt 360
tggaatgccg acgagagca 379

<210> 404
<211> 426
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA956431

<400> 404
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caaaacaaaa ctcttctttt cccaaaataa ccatgattag cttagaaaaa tggatgtata 120
tcttcaaagt gtttcccttt aacggaaact tcattttata gaatctaaac attaaagggt 180
tgaaaaacac aaagccagaa tccagcataa gtcaaggaaa tccactcata cttcaggccc 240
ttctcctcca ggaaccagca ttgttatatt atttccattt agtagaattt gatctaattt 300
tgtaattott cttccttctg gtgtaatttc aaactctgtg acatcttcca acaccatatt 360
gacaaagtca tcaaatecta aaagtgtacc cagcatttct ttatcactct tcatcacaat 420
gtgaat 426

<210> 405
<211> 446
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA956723

<220>
<221> unsure
<222> (1)..(446)
<223> n = a or c or g or t

<400> 405
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acatggcccc ctcagcttac acagcccagg cccacgtgct tagggacgga accaggcgca 180
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<210> 406
<211> 425
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA956864

<400> 406
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acaagagttt ggggctgaac aacagagctc tgggaaggca ggagcctcct agatagcaaa 180
gggaatgtgc ttggagtctt acttcgggtcc cagaatgaga cccagcagtg tctcccagaa 240

ctcgggctga tccagtatac tgccctcttca ttctccacca ctgacagaga taggccaggc 300
cccagaccac agtaaaaaaca attgatcccc agagggttaga gctactccct acccccgacc 360
cctggcacat acacagattt ttggcagtgt tggactgggg aggagtaagc ctcagctcca 420
ccagg 425

<210> 407

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956910

<400> 407

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tgatgggtcc tcacaggcat gaaccaccaa ttcgagccca ttctcaagt ccacttcca 180
gccatctgca gctgtgggga gcccaggaaa gacacttcaa gtggaatgaa tctcaaacac 240
cttctcctct ggcagcgtgt aaggggccag aggatgtaca tcaaaagctt aagacaatta 300
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aagctactat ttacacaacc tcacaacctt aacaaatata agacgaagag ggctgggcag 420
cacggcttca tttgctcccc tcctcgcttc tgataaacac ctcgaaatgg agaccgccga 480
gctgacagca aacgttctat ggagagaatg ggggtggggtg cgagtggggg cacacgcaca 540

<210> 408

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957003

<400> 408

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ttatcaccaa cacaaggaac tcttcgaagt taattgcgtt gtcactattg acgtccaatt 180
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ttttcctgaa gtcattccctg taaagggcat ggtgattccc ttttatacca aaataattgt 300
ggtaaacttc aatgacgttg ctcaaggcct tctccaattc aattgccatt gtcgataaaa 360
atttcctttc acacaaggtc tgacc 386

<210> 409

<211> 421

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957071

<220>

<221> unsure

<222> (1)..(421)

<223> n = a or c or g or t

<400> 409

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aggatggacg tggagaaagg caagattgaa gacactggag gcagtggcgg ctcctattcc 180
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aatctcaagt ggggtcttgc ttgggtgtcc tcacagttct ataacaagtg acttgctcct 300
tacgggatat ttgcctttta ggttttacat tttgtttggt ttggaaagat gctttaaatt 360
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g 421

<210> 410
<211> 392
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA957202

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gagattacaa aactggctat gtacatgggg catcctgggt ttgagtcgtc tgtgcacaca 180
tagtgggcat aggaagtctg ggggtctaaag ctcaagcagg gataggggtga gcgtagactg 240
gggcacccca ccaggtagag cgtcccccac ccctcaagca tcatcaccat ggagaccagg 300
ctccagggaa accccctagg tttctccata gagacagatt ggcacttagg gatcgccaca 360
aatgggccac tgcgatttct acaaagacag at 392

<210> 411
<211> 265
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA957335

<400> 411
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tgctgcgaac cgccagcccc tccagtccag ccccttcag ccagctctca ccaggcctcg 180
cggctctctc atgagcagcc gctgaccggg tatcagtcct actatgtaca gatataattc 240
aaggcaaaaa gaaagcctcg tgccg 265

<210> 412
<211> 557
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA957410

<220>
<221> unsure
<222> (1)..(557)
<223> n = a or c or g or t

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tctatagtca aactgtaaaag aagttcagat gtaaaagaaa atgaaaatgt aatttcttca 180
taaagtttct gttactacta atcacatatt ctcttgtaaa ccctgaaaaa tttccctgta 240
aagcaaataa tatatatata atatacacat attatatata tataagtgtg gtataaagta 300

ttggtagctc cccctcccaa gagatcagct gttttcctta atcatctctt attagtgtcg 360
 acaaacagct aagatacata ttacttttgag aattaaatac ataattgtga aattcaaaca 420
 agccaaaggg caaaagcact atgtggatgg cacacctgng gtacatcacc agagtatctt 480
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 tgcaagcaca gcctcca 557

<210> 413
 <211> 454
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA957433

<400> 413
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 agggaggtcg agcgactctc tcaagattat ggtgctcata aatggagcca aggatgccag 180
 ccaccgtgct gccatgctgc cctcggaact ggagccattg gttactcttc tcgttgctat 240
 gacgatatac ctgacaaagg caactcaagg aggggaaggt ttctttggat gacagctcag 300
 gaatacagtc cgttgtggta ggagaggtgt ggctgcaaga gcaaggaagc tcacattgca 360
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 ataaaagtgc tcagccaaaa ccaaaaaaaaa aaat 454

<210> 414
 <211> 337
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA957452

<400> 414
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 tcggcgagtt atacagaaag ctctgcgttt caaaaaacta gacgcttttag taacaatatt 180
 acaaaggctt tagcttcaaa aataaccgaa aatgaaaaaa ataaactttt aaagaattag 240
 catcataaaa ttaatttatt ccaagtaaaa atacaaaaata atattatgac gttgaccaga 300
 tatgaaagtc cctccagaa acaactctag taatgat 337

<210> 415
 <211> 555
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA957708

<400> 415
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 ctgtaagatt tttaatgaac aaaagagtta aatacaaaact ttcatatgca aaatagatga 180
 ctgtaaaccc ggcaacctca gagccgagca cgaatctctg cgaaggctca gtggggctgg 240
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 cactgtgagc gcaggctcac caacctcggg tttgacattt atggtcacag ttactttgaa 420
 tccagtttca tgaggaagcc aagctacttc agttctagag aagaaagtct tgaagatgag 480
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cgtgtcatag catca

555

<210> 416

<211> 497

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957906

<400> 416

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gtcaagtaac aaacgctcca gggagtttcc tatagatata aattatgcaa atatccattt 180
atatcttcat ttacaataat caataaataa gagcgacat tcgtacattt tttttacaaa 240
gatccctttg ttttttttat aaagctataa ctatgcacag ctaaatagac aaaataagcc 300
ttgtaccaca aaataacatt ttgcttttgt ctccaaccgt tctgcaactt tcaggcacia 360
gccacgaggt cctcccactg tgccattaag aaaacatcaa gtctgtcaac tatatcccag 420
gccaaaagac aatgagacac cggtcagtct tccaagggtg tactctgaac agcgtcctgt 480
atccaggcct aacaacc                                     497
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<210> 417

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA963369

<220>

<221> unsure

<222> (1)..(525)

<223> n = a or c or g or t

<400> 417

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tatccttctt taaatttttt tgcgttttta aagttttttt tacaaagagc ccttatgata 180
atggtcactt ccaattgtact gtcattcacc taacagcagc agagatccca ggagtagcac 240
ccaaaactca ggtgccccac agaggacaga agcaacagca gaataatatg ctgagcagta 300
caaaaanaaaa aatcagacaa aaaaacaaaa cctcaccaca caattgtacc tgagtgcacat 360
aaaccggtaa aagtgtgact ttgctttttc atttttctct tctttttgtt ctttgggtctg 420
ataagaaaat gaacagtttt gcgtgtggca agtcaggtaa taaagatcag tctccagttc 480
agaaccctaa atcacacctt caaggctgct gcagcactgt ttcct                                     525
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<210> 418

<211> 328

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA963372

<400> 418

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ccagccctcc tggggagaaa gtagcttccc cgtgtctcaa ggactaagcc tctcctcaac 180
cccaccccaa cctcgtgtcc cagggcccaa ggcttcttgg taggcctctc tggaagtcag 240
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<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964181

<400> 422
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tatatatcat tccagtgtcc ctttccagac tggactgagg aaataggaat tggtttcatg 180
cctgaggctg ttagactttg gaggtggcat agcctttctc acctggactg cagggcctgg 240
ctctaagtca cagtgtctct ttctccacac tgttatccaa g 281

<210> 423
<211> 531
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964275

<400> 423
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tccaccacag aggtgctaata gtgtgttgtt ctctagaaga ggtaagtggg tgtctgtgtg 180
gccatccgca aaggggacag aatggacggg cttgtaggat ccaagtctga aacgacagca 240
aattattttcc actataaatt ttccaattcc atgtaacatg cctgttgttg aaaagattcc 300
tccaataata ccacagagtc ttacaaaaaa ctgccagaaa ggcatgtgtt cctcagtgc 360
tgtcaccatg tgagaactga gatcgtattt cataaatatt ccagagacgc cgtggctg 420
tgagcatgg ttgatgatgc gttccctttc tgtcacagag aactgatggg tatctgcgga 480
aatcttgtat gtgtgtagct ttgttggcac aactgtaatg aaatattgga a 531

<210> 424
<211> 458
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964302

<400> 424
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cagctcagag tgggtgtcgg ctgcctcaga tatgagctgc aaggctgccc ttggtgctgg 180
tagggcgctg gcctgattgc tgtgagctag gtgggatgat gcccaaactg ccctggggac 240
agtaggcacc gactacctgg gaccatggct gggttgtgtg catccagcca ttcatgtgtg 300
caggctgtgg ctccctggcac actgcacagc tgggaagatca cattgactgt ccttgtgtcg 360
gctgccgaat caggtgaagc actgagctgg ggtacaggg ggtacagggc ttgttgggct 420
gcgtacttct gtctcacact cgtgcattca ttccctgg 458

<210> 425
<211> 438
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964336

<400> 425
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 gcatgctaaa tccaattatg tggtaggaat gacatgtaga atcacagtag cgtccacccg 180
 tggctcacac agttcaattc atcagaactg tgctcagtag ccagggtgctg aattattgca 240
 caagcttgcg ggcccagcac gttccctcca ggcagcgagg tctcctgcct cattctagca 300
 tcaggaccag aaagtcagta ccagatttta cagtcacatt tatggaatcc ataacaaact 360
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 cttcattatt atactcac 438

<210> 426
 <211> 363
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA964368

<400> 426
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 gttacacgat gagagcaaca cttcattttc cacctcctag gaaaatattg gttagataag 180
 gcaaaggacg ggcagctact gaacgggtgat attaaccatg caagaacaac acatagggtgt 240
 gcaataaaca tcattgctaa atcttgggtt gaataggcaa gggataaaat ggatttcagc 300
 caagaatttg taacaattaa tgcaaaaagat tttaaagaat gtcttgtagc tacctttaca 360
 tta 363

<210> 427
 <211> 477
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA964379

<400> 427
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 ggggctctac acttcagcga cagcgtataa ttgggggtttc ctggctggat ccgcagctct 180
 gccaaaatcc aaatgccatt agtgagcttc agggactggg acagcatgtc ctgcccctcc 240
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 gcgtttaaat gacactcctt aatctgaaat tggagctcat tttcattggg aatatacttc 360
 cacgtcgcaa ggaagacctg gcgttccatt ttgccatctt ctacaaaaag cacattgagt 420
 gggatgaggc agctgaagta gaagacatca atattgtttt taacagccac ctgcaag 477

<210> 428
 <211> 498
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA964455

<220>
 <221> unsure
 <222> (1)..(498)
 <223> n = a or c or g or t

<400> 428
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 agcactgtcc gcctcatc 498

<210> 429

<211> 367

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA964514

<400> 429
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<210> 430

<211> 537

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA964688

<220>

<221> unsure

<222> (1) .. (537)

<223> n = a or c or g or t

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<210> 431

<211> 437

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA964752

<220>

<221> unsure

<222> (1) .. (437)

<223> n = a or c or g or t

<400> 431

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aaacatatat gtccttaaag acagtggggg agacaacaga tttttaactg ctgagcttct 300
tacttctaag gagaacagtc aacattgtta cttcttgtcc ttcacagtct ggaattcatg 360
tgggtcatta gcttctccaa tttgattgct anggctatgt ttcctttaat cttcaacttt 420
cctgacataa atgccat 437
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<210> 432

<211> 404

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA964892

<400> 432

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aacgaagcgg ggtgtgttta cgcaaatccc tgtaaggcac tttacggttt tcatagtggg 180
cagtggagga cataggatat aattctaggg ttcgttgctg ttaacaatac aaaaggaggg 240
gagaggagga caaggaggga gtagcaccat gttgtgacgg cggcagaggg gggcatcact 300
atgttcttct catgcacact tggcagcggc tgacatgcgt gcgcagctcc cctgccttca 360
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<210> 433

<211> 380

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA965031

<400> 433

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aacacttata gtcatacaaaa atagtgaata aaaaatgcct ttgaaaacct ggaaaaaaaa 180
ctaaaaaaga gaacaagaaa ggtcacggca gggtcagctc cccacaggca ctgggtggcca 240
ctgtggccag gccctcgggtg gccacagcag cctgtctccc gagcaaaggg agcccacaat 300
ggagccctaa agtatgatgg catttcagga taagaggcaa aagaggcctc ccctcccagg 360
agaaagaaaa gacacttggt 380
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<210> 434

<211> 201

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA965075

<400> 434
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 tggtttttctc ctgtttttctc tggcctcacc cctgctgcca gtctcctttg atcctgttgc 180
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<210> 435
 <211> 498
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA965122

<220>
 <221> unsure
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 <223> n = a or c or g or t

<400> 435
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 ctcttggaat tagtagatgc acactgctca ggcaggtag actggagaag caatttcacg 180
 ataaacccta cagaatgaga aatgtacaaa gttgttgggt ggctgctggc ctcttgccctc 240
 cccatggggg tcagggttac acccatcagt cctgcacaaa ggtcctgnag ttgacctgng 300
 gagctgcaaa atcttccctg ngggacaaga acagtcttgc tcacccagca gatgtgcca 360
 cgaataggca catgggtgtg tgcccagttg ctgtggtttc cccctcaggt tccatagctc 420
 ctccaggtgtg tcttctctct gctctatgt cctccctta aagggtgtca tacagggtga 480
 agtccccgag aacctgtg 498

<210> 436
 <211> 519
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA965190

<220>
 <221> unsure
 <222> (1) .. (519)
 <223> n = a or c or g or t

<400> 436
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 atgcccacta gatcatcaca atgcaaggaa ggcggaagg aggagatagg gccagggggg 180
 gaaagcagta aaaagcttag atttcaatta agggctggta agtccctttt ctcttcaagt 240
 atcacgcatg tgtaccaa ataatcagta attaaaggcc atttcttccc acacccacag 300
 ccgagtaatt gctaaaccaa gagccctggc cactcctcag gtgagcaaaa tgctgcacac 360
 catggctccc caagggccat cacaccatcc aattcctaaa gagctggcca aggtgttcag 420
 tggccanagg aagatgaaca tggattcaga agtccaaaga atgcagttct ttgtgcccac 480
 tcagaaatga gttggtttcc ctctgtccga attcttggc 519

<210> 437
 <211> 414
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA996451

<400> 437

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cagtgggtgtg cgggtgctagt gagaagaccc agcatgggct gccgtcctgg tgggggcctg 180
accaccgcac cctccgttca ccacactgcc tgaaacagta ccgtgagca cactggccc 240
tagcacagcc tgcaggccca tctgtccctg acccctgggc acccccgcaa cactgacaac 300
gcacttcatt tgccaatgag actatgctac tgtcaggcta ccctacctag cctaaagagc 360
cccaacagcc tgcaatttaa agtatctttc ccttcctcct tcaaggtagc actg 414
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<210> 438

<211> 258

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA996727

<400> 438

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cagtcggtca agcaggacat agatgcggag cccttttcaa atgacacagt tattctgaaa 180
gtttaagggt ctacaggaac atacaaccaa ggacttcatt gtggagagga gaccagattc 240
aaatctgcct tcccgggt 258
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<210> 439

<211> 203

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA996782

<400> 439

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tagtaaaatg tatattacaa atcataggca gaaaagaaaa agtgggaacac gtttggcatg 120
catcttataa aagaaaggat ctgtagaagc tgagcaatgt gtgcagtgcg ggcggctccc 180
agtagaagtg ccactccggt aac 203
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<210> 440

<211> 440

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA996883

<220>

<221> unsure

<222> (1)..(440)

<223> n = a or c or g or t

<400> 440

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 aggcaccagt gtgagggcat ttcattgtcca gaggtgagcg taaggcagga tggggagccg 180
 tctagtacct ctgctggacg gtagaaccac cagcatggca aacacagtca gaggtcagag 240
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 ccttagtcct tctaggcaaa ggganaggta acatgttcca tatcgaagtc cacagcagct 360
 aaccgcattt gaccttggga attctaggct ggacttggtg ggggtggaat agcacagttt 420
 taccactgc tttgactgca 440

<210> 441

<211> 158

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997009

<400> 441

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 ccaagaaagg acctgtaacg aaacacgcgt gtgggtaccct taggtcagcc cttcttttgc 120
 ttgagctttt ccaagtacac gtgcaaggac ctctggat 158

<210> 442

<211> 513

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997048

<400> 442

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 aataacacaa actatatgcg ttttttcaaa atcagcagcc taggcacatc agcgatgacg 120
 taacctttga ggaaaagagg agcctccacc cacttcatct caggggagcg tctacttcta 180
 gtgcaaagta tgtgaggtc cagccttcta tgcccggtgca tcttgctaca ccttagccaa 240
 gctcctagtt aaccacgaaa gcaggaaaat tgaaattatt ctgggttttt gggctttaca 300
 atttaaatca caacatctct aaaaagatag gtcaactcta atgcttctaa agtgattttt 360
 tctttctttc ttttttttcg gagctgggga ccgaaccag ggccttgtgc ttcctaggca 420
 agcgtctac cactgagcta aatccccaac cccttttttt ttttgctttt ttaaggtttg 480
 tttttaaccg ttgtgtatgt gtacgtgtgg agg 513

<210> 443

<211> 436

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997068

<220>

<221> unsure

<222> (1) .. (436)

<223> n = a or c or g or t

<400> 443

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 attatttgat aagttcattc aatataattt aaaataaact aaaatttgca gtacaaaaat 180
 aaaactaata ctgttttagc tcgtcttttg agtctatacg gtcaattttg agtcaagttg 240

atcaccattt ttttctttat aaggttcttt anaaagagct gttctgcagt cagattgtga 300
 tacgcattct tcttcatcaa agacatgggtg gcattcccat agtagtgtaa aggactgtct 360
 ggtgtgtaaa agttgtactt aaaaccagca aggtgcactt cactgcatat gtgaaacgcc 420
 aaggtgagag cgataa 436

<210> 444
 <211> 396
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA997237

<220>
 <221> unsure
 <222> (1) .. (396)
 <223> n = a or c or g or t

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 tccccaaagg tacaacagat gcgacacat gcagacacgc agctgtgaat gacagttcag 120
 agctcaacat aaacttgtgc tgtgaacagg taccgcccc gtcgacacat acagtcacgc 180
 ggctcttaag aggaaaagca cacatgggtg gggtgcagaa aggacagagg tanggaagcg 240
 ttctcacta gacacaacac accatattgt ttttccaaa cacacacgat acattagagt 300
 gaggtggtgt ctttcagaac agggaggagt tgaagtgtgg gcctccctca acccatgtgc 360
 cacccaaggg ctgggtgtgt gatgggtcacg agattc 396

<210> 445
 <211> 221
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA997323

<400> 445
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 gatcatgtcg ctgccttccc cctctgcaac cctaagccag tccatgccac cggatgtata 180
 tcacgcactt tacaaaacaa tcctgaagcc taatcaaata g 221

<210> 446
 <211> 468
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA997345

<220>
 <221> unsure
 <222> (1) .. (468)
 <223> n = a or c or g or t

<400> 446
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 cagctaggac cagccacca caaggtacgc gtggaaccaa agtgcttaga ggcttcggat 180

ttttaattgtg caaaagatct tgagcctaaa atgcctaaga accatcaggc taacttggtta 240
 agagctagaa cattgttacc aagcacattt gaagacggat cttttaatta aaataggggg 300
 cctgggtgtca cagatcattg gtagaattaa catgaaaggg ccctatccca aaaatgattt 360
 ggtagagtgg tagagttgct cgtcttacag aacatcatte tgcttgtgac aggttagaaa 420
 gccattaagg cttctttgac tccactgaat anaggtctgc tcgtttct 468

<210> 447
 <211> 467
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AA997414

<400> 447
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 aatctaatta tgcattacat cctagcaatg gtcagtacca gctacagaac attatgctgc 120
 ttttcatctc ccagttcacc ttagtgggca cggcagtcac aacgatcaca gactattttt 180
 acagaggaag gtgagagctt tctcaaagt gttttgttgc ttagagaggg caagcagctt 240
 ctcaccatgg aaacaatcag gttgctaggc aggacaaggc caagtgtgga agaatgggtcc 300
 ttaaacagat ctactaaata aatagatcct gcgactggca actttcttca agttctgata 360
 aatacccatg aagtaactgc ttggccttta tccaaacact tctttcttca atgcttcttt 420
 gtcttgctga caagacagcc agtcaacact gaagcataca gcctgat 467

<210> 448
 <211> 395
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AA997438

<220>
 <221> unsure
 <222> (1)..(395)
 <223> n = a or c or g or t

<400> 448
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 attatattta ttttttaaat cataaaatat atttttcctt tgttcatatt taaaaatatt 180
 tacagggagg cagcgaggcc ggggtggacg gccgaggtca ggacgagtc gtgcaggtag 240
 tacttgctgg tcttcacgag actggtgctg tagtcgctgt cacacacgtc tgtgctgcaa 300
 ggtgttggtt ggggtgccat acctcgaat atgtanggcc tgtatggtct ggcagtggat 360
 gggatgtttg aagaataaaa catgtccatg ttgta 395

<210> 449
 <211> 329
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AA997466

<220>
 <221> unsure
 <222> (1)..(329)
 <223> n = a or c or g or t

<400> 449
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 ctcaggttct gtagaggtga tacctaaagg gtgctgctgg cacaccctc ccatctgtca 180
 cctctagtgc caggctctaa gaatccacca cttgcagaga ggcggtgacc cagaggaccc 240
 tgggtggccg ccctcaaggt ttangaggca gaagagccag agccagctgt tacagtacca 300
 tttcccacag aagcctcctg ctgactcca 329

<210> 450
 <211> 460
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA997699

<400> 450
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 agactaatac actgacattc aaggaaagca cttctttaca ctgtcacatc ttggcatagg 120
 ttatgccaag taccagaaca ttccttttta cctgtcataa gtagtgggta acagtgggga 180
 tagatccttc caccttagga acgtcatggg catgtcacaa tacacctggg ttagatggag 240
 caccaaaatt ccagaggaca tcctaccac gttctcaatc tcctttcccc atgaggtcct 300
 gacggacttt tccaccaatc aaatccgaga tgctctaaac ctcaatactt ctattcagtt 360
 ggggtgcaatg gggctgacat ggaagatccc tcatctcaat ttacaacttt aggactaaac 420
 aacgttgagt agggtaggtg aatgacatcc gaaatcaagc 460

<210> 451
 <211> 484
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA997711

<400> 451
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 aacatggatg ggccagctct ctaatagatg gcctacacgc ccacagatga gcaggaggaa 180
 ccatgtccag ttatgctgag aggtcacttt taccttcaca agtacaacag ccccccacagt 240
 gccccactgg agcagtagga tagtctggaa gcagctcccg cccactataa ccacaccac 300
 tccctatggg gccggatcca ggcaccacgc agttccagaa acaatagtgg ttgactgcca 360
 aattctagaa acaaaattag gagcaggatg ttacattgtc tttctgtagg ttaaaagaaa 420
 aacacccgga agcctcaaca ttttgactct gaaacttggc aagaggcagc ctgattccca 480
 catc 484

<210> 452
 <211> 491
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA997721

<400> 452
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 tacggttcgt gtcacaaact gcattgctgg gcagtttccg ttccatatgc tgtgccagca 180

ttaaaccacca cacagatata aaactattgt aaataaaaaca ttccagccag gactggcata 240
aatttatata tatatttata ttttatatat atttatatca ttccgaatca gctaacaatg 300
aatgtcatcc ttagtcaaaa ctcagagtcc tgctaatactg aggocctacat ggtccaaata 360
caacagcctt acacctccca tacaatatatt aaaatatatt tagctttcaa atgcatttat 420
aaggtacatc catagtgaga aaataaaagtc ttaaaaactta aatacaaaaag tcaccaagta 480
aaaacttgaa g 491

<210> 453

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997746

<400> 453

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ttgagctttt ccaagtacac gtgcaggac ttctggatgg agtctctgga gatgaaactg 180
gtgaagttct ggatgtcagc ctctcgctgc ttgatcaggt tgtccgccgt ggccttcgcg 240
atcatgctct tcgtcagctg ccgagaatgg tctgaagaaa atgggggttac ttatgaaacc 300
cacctgtgga gtatttgggg ccatttccca ctctttgccca catgttcttc aagtactgag 360
atatggactc tcctagagag ttcagaaaac cagaatgaaa gcatttgggc agctaacgtg 420
ggcta 425

<210> 454

<211> 422

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997763

<400> 454

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ccttcatagc taccaacaaa tcaaagtac aagagtatgt tacacactat acaagggcgt 120
ctcagggcga ccaggacccc ggtgaggagg tgtgcgttca tttctaaagt gcatgcttcc 180
cccacccggg cgccggcgcg gcctctccgc ccgcccacga ggaggtcagg aggtgagaga 240
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ggtggccttg actcggtgt acagactgaa ggacttcagt tccagccaga gaaacccaaa 360
gcggtcctca tcgaacagga cgaagacgcc gggggtacgc tcggggctcg taaaaacatg 420
gc 422

<210> 455

<211> 370

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997765

<400> 455

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ggaggatcac tttgtttgta catcatgaca ttaaccctg gttggcagga atgacggaga 180
gcggttttgg catattgcac aggcggcggt atggaggctg cgctgggtgat cctctgggtg 240
ctgaggccgt ttccttgtcc tccccaacct cagtgcacac gcggggccagt ctcagaatcc 300
actaccactt ggtgtagatg ttaacaagt ctttgggtctt aataagcacc attacaaacc 360

ctcacattaa

370

<210> 456

<211> 351

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997851

<400> 456

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gatctctggg gaggggctgg gcttcccaa cccacccttc ttgccatctt ctaggccaat 180
gagctgagca cccctcagcc tctgtttccc cgacaaaaat tgtgctagtc aaggtagga 240
ggctcctggg gccagccaga tgcaggtggc tctgggctaa gccaggcgcg tgtcttgagt 300
cctagcctcc caccctgccc agttcatcag cacaggatcc agcttgaagg c 351
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<210> 457

<211> 415

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997979

<400> 457

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cttttaagtc attaatagtt tttaaacata atacagactt aaaaattggt caacatcaac 180
acaagacccc acccctaagc acagaaatca actccaaatc cagaagtcac agttgtttgt 240
ccctagatgt cctacagcac tgaacttgat ctttatatca ggctaccagc caggaaaagg 300
ccctgaaaga aaccctggg agacagcagc acttctgatt gctgctgcat acctatctac 360
cctgagggca gatgcatctc acgtcaggtc tgtgagactc ggagccacca cctaa 415
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<210> 458

<211> 373

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA998029

<220>

<221> unsure

<222> (1) .. (373)

<223> n = a or c or g or t

<400> 458

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cctgggtgtc ccaagccaga tatctgccta atggaatctg ctctggagat gaggcacgga 180
gatatgaatc tttgctaaac agatccaatt aagaggccag gcacggtagc actggcctca 240
ggaggccaag gcangaggac tgccatgact ttgagtccag cctgggttac agagtgagac 300
tatctcaaaa taacaacaaa cccaacaac aataacaaaa aaccaacacg ggggtgggagt 360
gggagagtga gca 373
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<210> 459

<211> 409
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA998207

<400> 459
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cagagtaagt tttcttatga aaaaaatgct aaaacttctt ttgaacaaag gaatattcaa 120
ccttaagaaa aaccttaaaa gactttatta ctggtacttt ccaattgaac actagcagcc 180
caagccttct accttaagtt gaactcttaa aaaaataagt tttaaaacac tctatgctaa 240
tatatttaca gtttatatag aaattttcaa taatcaaaat acatcttttag caaaaattta 300
gaatgtttaa tttttataaa ataagcaaga ccaatagaaa aggagaattc agtaccattt 360
cagacttagc ttaagacaga gggtctccta actcctggca actctttgg 409

<210> 460
<211> 283
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA998234

<400> 460
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ggagctatgg acccgaaatc gaacttcagg aaggttatct aattaatgag ctcttttgga 180
tttcttaatt agtagaacc tgtgatcaaa gcaggagcc cagtctccac caatctcctt 240
tcaggaagca tataagaaga ctgggctccc tgctcgtgc cgc 283

<210> 461
<211> 331
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA998276

<400> 461
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ccattgtgca cacaggaaac tcccagagac ctctctcctt cgaatgaaat catcagagac 180
tgttatgaaa atgtgaaata aaaaaaccac ccaggaagag tgacagcaca gtgagctgtc 240
atcctgatga atgccggcta accaggaagg ccatcctctg agctctcctg agcgccgaat 300
tccggatcta gctgcacat ctcatttaac t 331

<210> 462
<211> 124
<212> DNA
<213> Rattus norvegicus

<220>
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<213> Rattus norvegicus

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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AB010466

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<213> Rattus norvegicus

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<211> 5010

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF010597

Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the distribution of the number of non-zero elements in the vector x for a specific value of n . The x-axis for all histograms is labeled 'Number of non-zero elements' and ranges from 0 to 120. The y-axis is labeled 'Frequency' and ranges from 0 to 100. The histograms are labeled with n values: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, and 120. As n increases, the distribution of non-zero elements shifts to the right, indicating that the vector x contains more non-zero elements as n increases.

171

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<211> 2261

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AF012714

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<210> 485

<211> 2436

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF013144

<400> 485

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<210> 486

<211> 669

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AF016387

<400> 486

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<210> 487

<211> 2225

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AF020618

<400> 487

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<210> 488

<211> 3769

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF025424

<400> 488

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<211> 6331

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF026505

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<223> n = a or c or g or t

<400> 489

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<211> 1892

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF034218

<400> 490

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<210> 491

<211> 2015

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AF036537

<400> 491

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<211> 1884

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<213> Rattus norvegicus

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<223> Genbank Accession No. AF038870

<400> 492

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<210> 493

<211> 1305

<212> DNA

The diagram illustrates the experimental design flow. It begins with '1000 Subjects', which leads to 'Random Assignment' into two groups of 500. Both groups undergo a 'Pre-test'. Group 1 then proceeds to 'Training (10 sessions)' and a 'Post-test'. Group 2 proceeds to 'Post-test' and then 'Follow-up (10 sessions)'. Both groups conclude with a 'Post-follow-up' assessment.

<223> Genbank Accession No. AF039890

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| aggatcccag | ccccaaaggtg | gagccagtgt | gcttatgatg | acctgctggg | aactggcttc | 180 |
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| ctgatgatct | ggctggcttc | taccgcagcg | agtagatgga | aggtggcaac | aagaagtagg | 1260 |
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<211> 1076

<213> Rattus norvegicus

<223> Genbank Accession No. AF044574

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181

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 <213> Rattus norvegicus

<220>
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ctagtccagg caaggctgag aagtctggag gtggccatgg gaggtggtct gcagcccaga 480
cttgggcagg gcattctatgc tacacacgct ccggctccgg ttctctcttc tcttctctct 540
cttcttctct ctctctctca gcacagtggc 570
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<210> 514

<211> 448

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008773

<400> 514

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cgtggttggg gtctcaccgc ggagtcacag ggcaggtttg acgtgtgatg gcctggctgg 180
tgggtgtttc acgtggcatt gtggcagatg tttaactat ttgcacgacg ggcagttatt 240
caacgtggct cttgtatggt gctccggagg tctagtgtct cttgtggctc ccctgggtag 300
gtgtctcttg cggctctcat gcccacgggt gtccaggcgt ggcgttagta tgccagggtg 360
ggcaggagcc agcagtgtct atggcagcgc agctggtgac cgtagtctgg ccatttgcag 420
gtgatctccg tgggtggactt cggacaaa 448
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<210> 515

<211> 479

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008787

<400> 515

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ccaccctaca aaactttgaa tgtggaatgt tcaacagcct aagcagtttt agtaggctac 120
aaaaccagca aaaaactcca gttgtctaag gatgaatatc tgagaatagt tgttttgagt 180
ggctgattac cggcttgga aaaaaaaagt ttgcaaaaagg ctaaaaagtaa aatttaattt 240
ctttacagaa aatagcatta aggtggtgag tagcctttgc ctttaacaag tgggaactgat 300
tctgcaaggc gtagatggag tgggacaagt ggcattcagt tcacaggcac acagctcgtg 360
ctcaaactgc tagcacagat ccagcacag gacatctggt taggtcactg ctgaactttg 420
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<210> 516

<211> 444

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008813

<400> 516

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acagatgtgc atatgcatac acaccatgac agtgctctgg ggccggggac aagggtcaagc 120
```

Figure 1 consists of 12 histograms, labeled (a) through (l), each representing the distribution of the number of non-zero elements in the rows of the matrix A_k for $k = 0, 1, \dots, 11$. The x-axis for all histograms is 'Number of non-zero elements' ranging from 0 to 100. The y-axis is 'Frequency' ranging from 0 to 10. The distributions are roughly bell-shaped and centered around 40-50 non-zero elements per row. As k increases, the distributions appear slightly more concentrated.

<211> 478

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI008838

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|-----|
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| gtccataggt | caggggtggt | ctgcttacgc | atttggtgcc | tcataattaa | gttcagctaa | 120 |
| cactagggcc | tatagtttgc | tgtcagttag | accaggtctg | gtcttgacag | taaagccacc | 180 |
| atcaaaagct | gcattgagaa | cttcattccg | gcggacagtt | gtacttttgt | tccaaggaag | 240 |
| ctccaccata | agttccaaat | aattttctagt | cagagcatat | tcaggcattg | actgaggcat | 300 |
| tttttttgagt | cttttttatct | gcttgacaca | gactttatga | gcctgttctg | gcataactaga | 360 |
| tgttcttatt | tttttctcca | gcatgacaat | gtcatcatta | tcttctctct | gctcttcctc | 420 |
| ttctaaaagct | cctgggatgt | gtgtaatcct | ctgatggggc | gtattgctat | aacccttt | 478 |

<211> 467

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI008919

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
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| gccaggatat | gctcctgaga | tatgtgacta | gatcctgggt | agcctcggcc | ctctctggtt | 120 |
| gctagcccta | cccagagctc | cctccgcttc | atgaaacgag | tccgcaggct | gggcgaggcc | 180 |
| tcattccgag | gaaaaggcag | tccccgcaag | ggcctggagc | ttccttcccg | aattctgggc | 240 |
| agcctgtaac | ctggctcaca | acttgtgtgg | ggtcaagagc | tgctattgca | aggtcgcctg | 300 |
| tgcttggttc | tttcccctgg | ctcaaatgct | tgccataacct | atggccacct | tccctggcaa | 360 |
| ctcgcgtccc | cagggaagag | gaagccactg | cttcatttac | acgccttcac | agcgaagggc | 420 |
| ctgccaaagcc | cttgctcatg | tcagtaagga | gactgcttct | caaggcac | | 467 |

<211> 486

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI009026

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| aaagaaattt | gaagtcttta | ttgaaccaat | tgcattgttag | gttacaaagc | tatttcactt | 60 |
| ttccaaaatg | ctgtttctct | ttgtagacca | atctggccac | aaaaggctac | ctggctaagt | 120 |
| attagccaga | aacttctaaa | tcccagtgta | atcttcttgt | ggcatttttc | caacaaataa | 180 |
| tgcagaccaa | atcacaaagt | ggccacctca | ctggtcacat | ggctccttag | ttaatgagca | 240 |
| gaggctgaca | ggctgtcttc | tcactcttcc | aaagaccgcc | ccaagtgcac | cactgcagaa | 300 |
| ggaaagtttg | ttttgaatac | cacaggacag | aaggacaggc | agctcataac | tccagtgtaa | 360 |

aaacatatag gagagctgag tggcaacagc aggcactgtg ataacctggg ctgtcaaagt 420
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 cgtgcc 486

<210> 520
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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI009096

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 ttcgcagagt tgaagggtcaa gcgcctgagg aagaagtttg ccctgaagac actgcgaaaag 180
 gcaaggagga agctcatcta tgagaaggca aagcactatc acaaggagta cagacagatg 240
 taccggactg agattcgcat ggctaggatg gcgaggaaag ctggcaactt ctatgtgccc 300
 gcagaaccaa aattggcctt tgtcatcaga atccgaggta tcaatggagt gagcccaaag 360
 gtgcgcaagg tgctgcagct gctccgtctc cggcagatct tcaatggcac ctttgtgaag 420
 ctcaacaagg cttcagtga catgctgagg atcgtggagc cctacattgc atgggggtac 480
 cccaacctga agtcagtaaa cgagctcatc taaaacagag gctatggcaa aatcaattaa 540
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<210> 521
 <211> 458
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI009115

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 aatggccctc caggtacccc agtctcttct tggaggggcc tggagcagg aggtcactgt 180
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 atgttattgc tggataaacc tttctcggag acccggggca gtcacagact ctgggaaact 360
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<210> 522
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 <212> DNA
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<220>
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 gaccctaaac gtcaactgag ctgggaacac tcagaattct caacagactc tacaagccag 180
 gacaaagctt atgcattgaa tctactgagc gcttaatttt tggcatctct ggaagccagt 240
 cagcaactg ctcaagtatc agaaaatact taaaatgtac tctcggtata taaatacaat 300
 cttaaataatc tttatttttg tttttattgc tatagaaagt gctctacatt gaataaaa 358

<210> 523
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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI009338

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 aagccagctc tgccatcgac accttaggcg aagccttggg ggctggggcc tattctaaga 240
 tgtggctcctg ccgagaagat gactgtctgg cattgtacaa gaggctgatg gagatgcctg 300
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<210> 524
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 <212> DNA
 <213> Rattus norvegicus

<220>
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<400> 524
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 tttgcat 487

<210> 525
 <211> 485
 <212> DNA
 <213> Rattus norvegicus

<220>
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<210> 526
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<212> DNA
<213> Rattus norvegicus

<220>
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tccattttca tcagctgtat ctagaatttt acagattact ggagattcaa cccaagaat 240
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<210> 527
<211> 634
<212> DNA
<213> Rattus norvegicus

<220>
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atcaaaaagaa tcccctcctg atataaagtt tagtttctct atcatatcaa aataaaaaacg 180
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cgagagaata aacagaggta ccttcttctg tgaatccagc ttgcaaggag aaaggcagag 480
actgaaaaac aactgtttca tgagttagtt cagaatcctg tcaatagcat tattttttcc 540
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<210> 528
<211> 495
<212> DNA
<213> Rattus norvegicus

<220>
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cccagtaggg tgtgcaagat ccggattaga ctctggagaa aggggttaaag ctgttgccat 420
gaggcagact ctgggcagga agagtcaagg aacaagctaa atgagcagaa gggtaggga 480
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<210> 529

<211> 500
 <212> DNA
 <213> Rattus norvegicus

<220>
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 tgatatggaa agcatgttat ataaacattt ctacaacaaa aacatgcggc acaaatgaaa 180
 ggaagatgtg tgggtaggag aggagcaaac aggacattgc cacagtgtga gtgacgggtc 240
 atcgctcttg gaagtcattg cccagaccga cattcccagg agtgaaagaa acacaggcca 300
 ccctctgcta atgccaggct cctgtggagt caggcctgaa ggcggaagtg cagatgttta 360
 aagcctgctt ggaagaagca agctgtgctc atgatttttt tcttcctttt gggctgaacc 420
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<210> 530
 <211> 547
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI009752

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 tctgtaacgt gtcaacagca gtcatacagt aatcctctgg tgattgtata tgtgctaata 180
 ctttttagatt caactttaca gttattttct aaatgattct ttatatagaa aatacatact 240
 tccttcaggc agataaaaaca acaactttcc aataagaaaa atatcgagaa acaacaaata 300
 aaaatatcta taccagatgc aaaattttga attattacct aatgggtccc tttgcacaag 360
 aacagccttt tgtaattttt aagtagacat tcaggcagaa ggataacttt aaaattgaaa 420
 aaaaaaataa tggctgtttc tcttcagtag taaagtagga aatataattt caacatgtca 480
 ttagcagaga agagtaaaaa ataaaatatt cgatataaaa tgaatttatc acatcaccgg 540
 catctttt 547

<210> 531
 <211> 383
 <212> DNA
 <213> Rattus norvegicus

<220>
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 gataccaaaa aatatatata taaaataaaa taaagcaaac ccagattgac atcctgcaca 180
 gtcaattaag catgtgttgt tttaaacat gacgagtacc attctgcaaa ggatcccata 240
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<210> 532
 <211> 104
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI009950

<400> 532

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<210> 533

<211> 610

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI010050

<400> 533

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actccggggg cattgctgca gacgggaccg ccaaggtggt cgtcccttca agcccccac 120
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<210> 534

<211> 491

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI010083

<400> 534

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aaccacccct agcccttgta ggaaaggctt atctggaatc acaccacgtc atgtgtagag 180
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ctcagaatct catccacaga gcggcccaca ggaagatcat ttattggtat ctggcgaagg 420
atacctttat catcaataat aaagaggccc ctgaaagaga taccttcatc agcttttaag 480
actccataat c 491

<210> 535

<211> 478

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI010147

<400> 535

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gggctgagga tataaagggt tcagaaagaa tgaaacatga gccctgggtt tgcaatctgc 180
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gtccccaatt cttcagtagg tcaagacaag gtggtctgct gggaaactaga cacacctcta 360
atccaggagg aagtggctgg aaggaacaga ggggctccct ggtcccacct tctccatcc 420
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<210> 536

<211> 494

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI010316

<400> 536

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cttaagggcc ttgataggga gaagttttcc ccatggaaaag aaagggtcag cagctttcaa 180
aaggcttcct gttatcactg tgtgagttgt aaaatctctg ggtactcttc aaaggtcccc 240
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aaatatggac tcttctgggg gtgacgctct tggatgtttc tacaacgtac tggtgcccac 360
taagaatgcc acttccatta ctgaccccaa aagaagacaa ctagtctca cccacactga 420
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<210> 537

<211> 152

<212> DNA

<213> Rattus norvegicus

<220>

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<210> 538

<211> 590

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI010480

<400> 538

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caggcctttt ttccccacaa gcaaggggtg agagaaataa gtgcactctg tctcttttga 360
ctgaacaaaa gagcactoga tgactccttc cttcccatcc atggcgtcca ccaggagaaa 420
gacaaaagcgg gctccagcat aagccatgga cagagtggca gagcctgctc cagccttggc 480

cttcacgact tcagtgccag cctcctggat cctcccgggtg agtgtggcca gctggtcttg 540
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<210> 539
 <211> 477
 <212> DNA
 <213> Rattus norvegicus

<220>
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 gtggtcagcc tatggtgaaa tggtaagata gttcatcaaa acacacatct ttaagctgaa 240
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 agcagcaagg tatcagaaaa aaatctatta aaatctacta cagaataaca cagtgaacct 360
 taaacaccca agtctaaatt tttcactgtc tctcctgcat gaaagagatt taaaaaccac 420
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<210> 540
 <211> 464
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI010618

<400> 540
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 gtgccaggct gtctgacctt tgcttggttc ctggtggagc tgctgaaga cagctctctg 180
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 aatccagact gtgttttatg tggataaatc ccatatgggg atataagacc tatctataac 360
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 gccacatata aggagggccc agagcagggg atctgggtgg tggg 464

<210> 541
 <211> 417
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI010660

<400> 541
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 cccttgtttc ttatgtatct cagtgcagag acgggggagg gggttggagg gcagagaagg 240
 gagaccaggc tgaaagagga gcagagggaa gggacgctaa ggggaagcac accaaatcca 300
 ttagtactat atatatagag atactcgtat atactgcgtt tcttagccta agaagaaact 360
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<210> 542
 <211> 412

<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI011471

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cgtgaagaac ggcagtgatc ctgtttatga agttcaagtt gtcatacgtg cttaatttgt 240
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<210> 543
<211> 661
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI011503

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ctgtttcacg agattattaa tatacatccg ggactgggca ccagtcaatc atatcaacaa 180
ttcactattt atcaccaa atggtatataca gcaatagcat aaagattaag tatactttat 240
acgtgatttt ataataagac ttcttggttg gggaatctgt caacaatata aaatataagg 300
tggacataat ggcagaatat aaaaacacat ttcataagag caataatata cacgtgtcca 360
aggacaggca agagcctggt agctcagcgt taggcatggt ccttcaaagg agctgtaggg 420
gatggaaatg tctggggttg gacaagctca gagacatctt tgggtgtcac agtatgtttg 480
tttgggacag ccaaaggaca gtggggtagg tgaattgttc tgctgcatcc acttgaggaa 540
caagaaccaa gttcccttca tggccagggg aatcatgtct gggattccga gtgtagggcc 600
ctttgaatta ggggccagtt tggacggagg ggcaccagac agcgggaagg gagtcatcct 660
t 661

<210> 544
<211> 689
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI011510

<400> 544
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gttgagaaac aaacagggtga cattttccaat cgtttatctg aaatccacag ggattagctc 180
aatgatcctc cgggtacatg agggaaatcgt caccatttta gacatgaaag gttagagaat 240
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ccaaccactg ggcaccggag tcactactcc ctccagtggc atcacacaga accatgcgac 360
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atagaaccag cagaatcggg acattttgcag tctagccctg ctccctggga agcaacatgg 540
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aaggaaaccc cacatgctct caagccact 689

<210> 545
 <211> 426
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI011678

<400> 545
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 tcactgtttt gcacagtttag aggtataacc actacattct cagcctccgt gattgagggc 180
 attgtgcagc tttggaaggc cccatcattt cctcttaatt ctaaataagg tgaattacgg 240
 ctataattgg acagaaatta aggccattaa ggattcagac acaacactgt tccaagtgtt 300
 acttttagttt tgtttgaatg agttctgtga caagcccagg gaaggtgctc aaagtagtca 360
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 acttcc 426

<210> 546
 <211> 439
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI011734

<400> 546
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 acaccatctt gctcatgcct gagaaatagg ctttctctct ctcgctcatc acttcgaagt 180
 gtaagggcct cctgcagaag ttgcattcag ctgacgaatg tggcttcagt tccagcccg 240
 ctcgcttcca cgtgagcagt tttgagcata gaacagcaga gatttccttg cttctgcag 300
 aaaggcctga gggactcggg ataagaatgg gcatctgcga acgacagtct ccatgtctgc 360
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 acgctaaacc gaccagtgc 439

<210> 547
 <211> 468
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI011746

<400> 547
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 acctgccgcc ccacctggca cacagggtcaa aagccccctt ggggctggta tcaaatctag 180
 cttaatcctt cttgctcccc tgttgcctggc tggggaactt ttgatgcacc actcggaggg 240
 tgggtgaaaa attgccaagg aagaggaacg gaagcaggaa ggtgaggcct ttccacatcc 300
 aagactgaaa gccctccaca gggaggtcca tgggtgtgtca ttcgcccagg gctcacaggc 360
 ggtaaaggca cccgttctgg tagtaatact gcaaaaactg cacaaaactc tgggtacatgg 420
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<210> 548
 <211> 373
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI011809

<400> 548

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ctacagtgac tggggcctgg tgtccacaga aaccttaaga gggtagctga cagttaaatgc 180
tggtagagac tcgaggccag accagggcca acagacaggg ctatacttct ctgcctaaaa 240
atgtggaagg ttgcatgtgt acagttctcc aagttcgaaa ctacatctgg tgctacccat 300
cactgctaag ggttactcca tcttggccgg gacgagcgcc tcgggggtcag aactcaggaa 360
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<210> 549

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012085

<400> 549

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cgtcctcagt accaccactc tctagcccat cccatacccc ttctactgct tgtgtgggac 180
tgaacacagt tcacagccca agaggttagc aggtccttag tccagctttg agtgggaagg 240
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cagccatctg agtagcgctg agtgacacag atgacgggtt cttcagaaaa ggagagctca 420
ttgtccttct gccgggtgta tgggtacagc gtcaccactt tctccaagta ggcagcagg 480
accagctgg gtcctatccg tccaaaacct g                                     511
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<210> 550

<211> 322

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012130

<400> 550

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tgttttcagt gaaactgccc ttagctagaa ctgctgaggg gagagagagg tgaaggcagg 180
tcgcagagga aaaggagcag aggccagata caggaagaac agacctgtt aatgacacag 240
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tgagggtggg accagagggg ac                                     322
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<210> 551

<211> 484

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012174

<400> 551

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 taccttctgg cttcagtttc ctgagtgagt cagatagctc agagctgagc tgcacatcaa 240
 tgtcaggggc ctggtacttg agccgtccca gccttcgggg tttgtcagcc tctgccagtc 300
 gccgtatgag ccgctgctcc ttccggcgtg ccagctctgc cagcctccgg gccacctggg 360
 ccttgatccc acgtagcctg aagagttctt ggtgctgaag ccgggctgce ctcagtgcag 420
 cctgctgcac ccgcagcttg cgagcagcct tctcccgccg ccgctgctgc tctgtcttct 480
 tctc 484

<210> 552

<211> 398

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012177

<400> 552

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 accttcattg agaccgcagg cttggaaaac aaccacagag ggaagggatg ggaaaaatgg 300
 ctgcccagga gtcttctcca ccctggctta tcagacccca tccctatcac acagcccctt 360
 caaccacttg aaaatggagc aaacagaggg agcaaaat 398

<210> 553

<211> 385

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012215

<400> 553

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 ctttcgagaa gagacctggc ttctagaagg gattttccat aatcctacat aacagaggag 180
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 tgcaaaactgt tgacaaagtc ctcattctca tcactctcca tctcatcctc aatggcggct 360
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<210> 554

<211> 636

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012235

<400> 554

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 tttttttcca acattttctt tggtagacaa aagcaattta ttttaaaaat ctatccagat 180
 tattgtcact gataaaacag ataaagccag atgtacagga aatacacatc tttagccctt 240
 tagactgcct cagtgggaag ccagtgtgat taactcagga aacagtagtg ttctcttact 300

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cgtttctaca gcgtagaaat gtttgcaggg cacctcatga atgctaaatc tttttaaatg 360
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ttctgaatcc aaccagcggg cgggcgggat tccagtaaca atgtgtccat tgtaaccata 540
gacgataact cggagtgtgc acacacagag acacatgact cttegagata aatattttca 600
tagccaagca gaatacttta gaggtatccg acctcc 636

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<210> 555
<211> 636
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AI012356

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<400> 555
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aataaaagcc actgtactgg gaggccaaagc aaactgcagg catggctggg tgaggttggg 180
gacaagtggg gccaaagggga ggggaagtgg gccgttccaa gggctcacta tgggtgatta 240
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cagacagatc agctgagtaa ggtggctttg agtcactgaa tctagccatg cccctgtatc 600
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<210> 556
<211> 523
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AI012498

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<220>
<221> unsure
<222> (1)..(523)
<223> n = a or c or g or t

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gttcaaagag cagcatggca agctgggtgc gggagccaag gcctcaagca gctctggcga 480
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<210> 557
<211> 610
<212> DNA
<213> Rattus norvegicus

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<220>

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<223> Genbank Accession No. AI012574

<400> 557

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aattttaatt gtgggtgcaa gattaagtta agcatcaaaa tgttgggatc tgggtccaga 600
aaatttggct 610
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<210> 558

<211> 631

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012589

<400> 558

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gtctcaaaag gtttcagatg ccagggcagg gccttcacat agtcatoctt accattctca 360
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atatccacca aggcagcctc cttctggtct ttcccataaa gccctaaaga ggcacccagg 480
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tgcccataca gacaagtggg cttgagcgag ccttgaagcc agacatctat ggtaaccacc 600
tcctccttcc agctctggcc ctggtcagcc a 631
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<210> 559

<211> 467

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012747

<220>

<221> unsure

<222> (1)..(467)

<223> n = a or c or g or t

<400> 559

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ctgtgcggca gcatgcagcg ttgagagttc aaatcctagc taacctctcc taatctactg 360
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<210> 560
 <211> 522
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI012802

<400> 560
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 tcagttaaaa gtccctgtcc ccgtgttcct cagtcccagag gcaccttaaa ctggctcttc 180
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<210> 561
 <211> 615
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI013011

<400> 561
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 attaaaatta aaagtaaac aaagcctaag gcctgggaga aaacctggct acaatctagt 180
 gtagaaactt gtaaaggact ccagcctcgt cttccgactg caccacttca cagatcacag 240
 ggtagggtca cagagtaggg cgtcctgaca ggacacagcc aggcctcagc cgccaggatg 300
 ggggcctctg cccatccacc tgtgttctgc tcagctagct caaggtcaca tcttgctact 360
 cacatgctgc cggctttcaa agctacatca tctggtcagg ctgtcagagg gacagcgctc 420
 tccttggaac cccacactc tcctcgggta cagtggcccc cagcagcagc tgggaacagg 480
 ttgtgtgttt ggcgtctcag cactgacaga tacatggggc acctggcaag ggatgctcac 540
 tgtgtgtgga cctgaaaccc ccaaggaacc ctgaaagggt gctggctcct ggtactaacc 600
 tggcctcatc ccctc 615

<210> 562
 <211> 602
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI013044

<400> 562
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 ggctctctgc cataggcctc acacaccact tgctctctgc tcgggacaga ggaggggaat 180
 gtgcatgcac aggagcagg accaggatac acgattcgtt cttgggagtc atgtgatgtc 240
 tgcaggctaa caggacatct actgtccag agagccagtc cctaccagg gacaaaggca 300
 taccacaccg gtagatatga aaacatagat gtgcacacat aacaaaacaa caacaaaagc 360
 catcaagtcc actctgtgcc gcacatatgc tcttgggtgt gtgggcatgc aatggagccc 420
 gatcaacctg ccagtggcta ctcctgagag aaaactgact ctccttcccc tcagaagcta 480

tagctagcta atgagccatt ttcaataatt tggtatctgt tggcacctcg gccaccaggg 540
ggcgctctgc agtcagactg cctgaccctg ggaatcatgt gacttatctt aatgcagcac 600
tc 602

<210> 563
<211> 476
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI013387

<400> 563
cacagccaaa gaaatatttatt ttaaaataga aacaaacata cattaagctt taaacaatca 60
aatttttaaac aaaagggaaa aagagccatt tgatcccaga gttggtacag aatgactttt 120
gtgtgtgtga aatccacgta aggagcacgt ggacaagctg acatggaaat ccatcatgcg 180
tgctcaggtg tccactggct gccatcagac actcatacac taagagctac ccttgactga 240
ctgcccactg gcaccattcc caagacccaa gttcatgtgg ggtatatggt caagtgtctac 300
ggttccttct gaacacgaga agagaggggtg ctcaacaggg tcttctttcc ccgctgattc 360
cgccaagccc gttcccttgg ctgtgggtttc gctggatagt aggtagggac agtgggaatc 420
tcgttcatcc attcatgcgc gtcactaatt agatgacgag gcatttgcct cgtgcc 476

<210> 564
<211> 498
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI013657

<400> 564
gaactaaata aaacctgctg tcttcagtag agagtaattt gtaacacaag tcatgtgaac 60
agacagaagt aatgtgaaca taccttattg ctgcattgtg acttggtgac aagattctga 120
gcctggctga ccatattggag caaacgggaa attctatagg ccaggacagt ttctagagca 180
caacaaaagt tgcagaaaat atggagaatt gcacatgggt cagtggcggt acagaatcat 240
taaaatttca ccacatgaat gggaaccagt aatggccaca aagaagcaga actgagtttg 300
caaagctgag ccatatgggt cagtgcgctc actgcaggag acagacgagg aaggacggaa 360
ggacggagca cctcgtcagg tgcaggact caaagtgcct tatgcaaaga aggctacacc 420
caaaccttag ggagagtcag accaaagcat ctgatgttgt atttaatgat aagatagtag 480
taagtcataa atataaaa 498

<210> 565
<211> 510
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI013667

<220>
<221> unsure
<222> (1)..(510)
<223> n = a or c or g or t

<400> 565
cccttataaa caagccaaga ttatatgttt ggagcgattt aatgtgaagg aaagcacaag 60
agttctattc attaaataac aatccaagga catccaacac tagtagcaat ccctaaacca 120
gaagacggaa cggaaatcct gaggtgcctg ttaccttcca attttcgaat ctgaagaaaa 180

agcacatgga cctcccagtt taactcctgc ggattactac ggtcctgaag aggggcgggg 240
 tatcacggga gcgagaacac gaaaataaat aaaatcagtc aggaaccacc aaccgtagtt 300
 ccagcagcag caagaaaagc cagtctaggg ttccttgctt ttcacaactc tctccaggac 360
 gcaaaactct tcagagaagg ggggtgggaat caaggaaatg cagcataaac atcacagaga 420
 aggaagtgag gttgagaaag agttcagact taactgtacg gactgctgac anacgaagtt 480
 cacttcatga aacaacacaa caccctcgtg 510

<210> 566

<211> 407

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013690

<400> 566

aaaaaaatat ctaaattttt gtattggggg gagggagtaa aaaaaaaagc agcccctaaa 60
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 aaaagttggt tggaaaaatc cagggtgtaat tgctttgtat gctgtgatgg gtaggaaaaa 180
 tgaagtgaag tgtgaaggcc cctcaaacc tccatcttgc ctcaaactat gtcctggaag 240
 cctggggcgg aaaaaacgcc actttcattc ctgcttcttg gggttattta ctgccacgta 300
 gtgatagagg accacaagca agaaaagcga cagcccaac atggtggcga aaatggcgaa 360
 ctgcacgtcc gtgatcatcc tgactagctc caccgcactc cgaccct 407

<210> 567

<211> 428

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013745

<400> 567

aaagatttat ctatataagt acacagtagc tggcgtcaga cacaccagaa gagggcatca 60
 gatcccatat tagatgattt taagccatca tgtggttgct gggatttgaa ctccaggacct 120
 ctggaagagc agtcagtgtt tttaaccact gagccatctc tccagccttc aatagtattt 180
 taagctcaag atattaatgg tccagtatat gacagagaaa catgggaaca gattttaaag 240
 tggggataag aattacgcat ttattgttac tgagaggctc catagtcttt ggacagaatc 300
 accatcaagc aaaagcttat ctagtaaagt tttaggtggc cagtaacttc atcaattagt 360
 tctactggtc ctggcccaat tcccaggaca gttcgagagc ctgggttcaat ctgagtacgt 420
 ccggcatc 428

<210> 568

<211> 584

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013778

<220>

<221> unsure

<222> (1)..(584)

<223> n = a or c or g or t

<400> 568

tcatcagaga catttattga gcacttagag ttttaatacat tgtaaagaac cccaggcaca 60
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cagaaacaaa ctagctatta agtggagaag tgagtgtaac atccagtcca ctgtggtcctt 180
aaccatagtt ctgctcttcc taatgaggca ggtatgaacc ctttttcctc cctccaccac 240
actcacgagg caattgagtc tctcattgtg acagtacatg gagaagctga cttcaggatg 300
gtttgtttgt ttttttccat ctctttcctt cggtggaatc gggccagcct ctttttgaag 360
gagaatatta tttctttacg gaatttggcg ccgaggtaga gggaccactg aagagagatt 420
taagacagat aagactggca aaagcacaga ttgcttgcca caggaggacc tcctaagcct 480
taggatccga ggttacctt ctctagagac cggatagaaa tgcttgagga caggtaaggc 540
tctctccan aagagaggtc acaggcctca tgatttgcac aggc 584

<210> 569

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013832

<400> 569

cctatgctgg ggtttactct ccccaagcca tttccacac tctagaagca cagagcttcc 60
acaaataagt tttttttttt aaaagccatc tctgtataga aatcagactc tgccccaaca 120
ttatcatagt ctagactatt tacaaacctt cacattttta ttacacctgt tctgtatttc 180
cccttccttc ctatccttac caaggagctc tggtagcttt ccttaacaga ccctgaagga 240
gtaagatgct gtagaagggg tgatgggctc ctcatagcta ctggcaccag cccagttgt 300
tgtgtcttgc cactgggtgg tggaccgcct ctccccacc actggagatt tgtaggactg 360
gtgcataggc aaggagagcg acagaatgcg gtgggtgggt ggggcaagac cccacagcta 420
caggcgtctg tatcatgtaa ccgctcgact tgagggtgac tggctgaaat caagagagat 480
cagtcca 487

<210> 570

<211> 568

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013861

<220>

<221> unsure

<222> (1) .. (568)

<223> n = a or c or g or t

<400> 570

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agtcaaaaac atgtagtaaa aggatataca ggaagcaaaa atacagaagc aagccgggctg 180
agtgaggaag ctgtaacagg agggtagact aagatactgt aacaatcgag acaggaagac 240
aagtatagca agctgtctta cctatcaacc cctgcacagt aagtcagtaa cccagaatga 300
aggaataata gcacgtgggt aacaggacaa atttccctct aatttgtctt tgtaactgat 360
ttctttcctt ttttaccatg ggttccatct ggtaacaaa acatttgggt ttatttghta 420
agcagagtaa ataaaatatc ctgatcagag tgctcaattt tgtttaaggt gctcaagggt 480
canacttaaa aagggtcaact gggctagtca gtgggaacca ttgggtgtgt ttgctaaaca 540
gatgaaagca gcagcattta aaatggat 568

<210> 571

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013875

<400> 571

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gtggcctttta taaaatgggt ttatcttcta gctgtattta aaggggtgtt taacattacc 180
tacttcatta aaaaacaaaa acgccccctca ggaaatttag atacaattgc gctagtcattg 240
gttggcatct atgagagaga gcaactgcat tctgaatgag taaaacggac gtgtgcattg 300
taatttactt ttcctatgtc cccttcgaga ggggcaaagt aaaacaaaga aagcagtgc 360
gttggctgag gagactgagc ttgcaaagca ataggctctt ctgtccaggc agctcctacc 420
ccttcagttc cattccattt tcccttggga ctaaaagctc tgctctgtct catttaaagt 480
cttgtcttcc gg 492
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<210> 572

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013876

<400> 572

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ataaatatta acaaaattag tgagttttca caggttttaa atatttcctt tgaaaaataa 180
taagttcaac ataataaatg taattttag ctcacacaat ttaaaaagga gagggagata 240
cctttcttag aacagtttcc agcccccaaa tgtgctaagt tgctggctga gttgcagcac 300
ttggtcaaca ctggaaagaa gtatttatgc ctctctggga aggtaccaaa cactgaagaa 360
aagagagaag agaccccaaa cagtccagga gcattcctcc ggcgtgcaag gtcagcagga 420
aagggtcctc catgctgctg ctgacactca tgatgagtcc tggaagcact cagttacaga 480
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<210> 573

<211> 694

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013911

<400> 573

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tttaatgtcc caaaatacac attaatttaa aaaacttgat ttatcctggc cacttttttc 180
tcttgccag caacaataat cctgagtgcc tcaacaaaaa ttctgataaa aggaaaaata 240
ttgggaccgt taacaaatgt cttaaaattt gtcttttaaaa ggggggaaaag tgtttaaaga 300
acacatggag ctttcttaaa gttctttaac aaactacctt gggagctcaa ttcaaaaaata 360
gaacttgatg tactaaaaca gacgtttcag cgcagctcca aaaatcttta taaatacagc 420
aatttgcaag gacgatcctg gatcagaagt gttattcctt gtgtatattg tgtgcatgcc 480
ccatctcagt tgtcataatt gtctctgtaa tttcctcctg agtagcggtc atagccacc 540
tggtctctgc cactgtagtc tctagaccgc ccatacccat atccatagcc tccaggctcg 600
ctgtcgtatc ttccacttcc atatccctgg tctccaccac ctctagagta gctgcgacca 660
cgcccatggg ccccaaaagc accccctctg ggtt 694
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<210> 574

<211> 685

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013918

<400> 574

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tatttgccct aaaggaagtg aggggcagag tgaagaacct aagtgcagct ggggtgggcct 120
ttccttaggc taaggcatgc tcctcccatc atccagactt gtgagccctt gctgcccag 180
cccccaattc ctgcagcagg aagccccagt ggtctggctc tggcactggg agtagaaggc 240
acctgtaggg ctggctgggc aagtgaggac aggtgacctt taacacaaaa tactactctg 300
gtatggggag caggacatgt agctgaagca gctgtcgagg ccctgcacct ctatggcaca 360
cgtggatggt ggatggccac ttctccggga gcgaggaagc ctagatccca acaatactaa 420
aacttgtttt tggtaaaaaa taaatgcaaa gaaggtagat gaggggccacc atgaaagcac 480
ccatgttgcc aatgaggctg aagaggcagc tctctggggg gtatgtgcca cacttgctga 540
tgagaggaac atcatccagg gtgcagcagg tcttagggcc cccttgttca gcagggtcag 600
gagagcagga atcattgtag gaccagttct ccaactggga cacgtggcgg ttcacacag 660
ccatggcata cacagtccat atgcc 685
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<210> 575

<211> 400

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013924

<400> 575

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aaagtgatta aaaaaagaaa aggggtcaaag cccagatgt cagcgagcaa ggtgggtggct 180
caggaaaaac gggctcttca gtctcccag gaagtagcct aaaagctgcc actgtccctc 240
agacacaagc tcgagcaacc caaccaatcc tccctgggca aaaggccctt gtactggccc 300
ttgtgttttc taacccttcc aaactcggaa actccaattc tgtgtcaagc cttccctgta 360
ccctcaaagg gaagctgaaa gggccctgga ggaggacaag 400
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<210> 576

<211> 126

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI028938

<400> 576

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aaagggtcag tccattatca cagcaggag caccgggca ggcaaacctt ggggttgacc 120
tttaaa 126
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<210> 577

<211> 445

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI028973

<400> 577

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gccgaagcct ttggacttcc cactgcagtc tctcatcacc ttgacactta aggtcttacc 120
aaactggctg aatagctccc tcagattctc atcatccacc tcttctccaa agtttttgat 180
ataaacattg gtgaattcct tggccttggc tccaagctcg gcttcccgtc ctttgcgaga 240
cttgaatctg cccacgaaca ctttgcggtc attgaggagc atgccattca tcttctcgat 300
ggccttggtg gcagcctctt ggggtctcgaa gtggacaaag gcataaccct tagagccgtt 360
ctcatcacag accaccttac aggacaggat gtttccgaag gcagagaaaag tgtcatacag 420
tgccttggtg tctatagact tgtcc 445

```

<210> 578

<211> 300

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI029026

<400> 578

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gcgctcagac cttaagggcc cctctgaact cgctaacgca tttcaaattg gcaacactag 180
ccggtatcaa agccggaggg ggtggcctgg atccagaact gctgtgagcc agcatccag 240
cagtgaacag atggcacacg ctgcacagga gagaatgacg atcgtggaga gtcctgagca 300

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<210> 579

<211> 380

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI029212

<400> 579

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aaagggtgat ggaatccttt agcagtagag ctgggggaaa ggccttttagg ttattggaac 180
atgcccttga gggattgtag cacttgggtc caagcgtctt ttctttcttc ctgcctcaca 240
gtgtaagcag tttgttctgc catgtgtgcc ctgccactgc catttggcac tgttgccaga 300
gacccaaagc aatatgactt cctgatcttg ggtggggaca tccagaactg tcagccagat 360
agattccttt tctctttgta 380

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<210> 580

<211> 549

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI029291

<400> 580

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taaagcatat ttttaaaaaa cagaaccaa ataattgtaca tttttatctc taaacattgt 180
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cctttaatgc cagactcaga aactgttatg accctagaga acgagggag gctgtatgca 360
caggtgggag tctgatggct tagctatttg cagcatcggc ttggcgaggc catccgtcct 420

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00847660

cctccactcc agagtcatag tcctcttccg aggactcttt cgatggagcc cgaatgtatc 480
ctggttcctt tttgccttct actacttctt tgtcaacctc cacacataca atgtcagaat 540
taggaactt 549

<210> 581

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029450

<400> 581

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agtttttaaaa aatgaaaaaag aaaaactgta tctgagatct tagtatcatt ggtttttaaaa 180
aaaggacggg agaggcttct gtttcatcca tcagtaactc cgaccaaaca aggtgtagaa 240
cttggcagga ttcttgccac agacacacat ggctcctggc tgcagctcac acagagggtt 300
gaaaggaatg caaaggcttt tggctcccat ggatggagca ccagggtcca catcctgatc 360
cctggccgtt gtcgttttga tccagtcttc acagtcaatt tccccacaga atggaatctg 420
tgcaaccttc ccagaatcta gcaccttctg aaagtcttcc agtgtatccg atacaacat 480
gt 482

<210> 582

<211> 240

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029709

<400> 582

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ttagccatca gacatatgaa agacagtatt agccttggac atttcttggc acttggttca 180
gagtgggtggc ctggaccaac acctctaagt tcacatgccca agggccagca atctgtccaa 240

<210> 583

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029827

<400> 583

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gttgggtgaa aaaacagaag agggctacac agtcacctaa gacagtcaca gaaagatggg 180
cttcaggagg ctgccctgcc cctaccctgt agcagcagag ggagtgggac agtgggctcg 240
cccagatggg aagccatgtg cttggactgg ctggacctgg cttacagctt ggtttcttgg 300
gatacttgct atccactacc tctccctgaa tctcattac tctggatctt ccagacttgg 360
aacagttaag actgggataa aggtaccgga ctggtgtttt atttgaaagg gaaaaataag 420
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aaggaatgga gatccctgag cctgggggta cactg 515

<210> 584

<211> 323
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029829

<400> 584

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ttatgccaat tttctttgca attgccaaag agtacaataa gtgaactcct taaatgatat 180
acttctgtac ataaaatatc catgtattaa tacaagtgtg tggagcagag tttaaaggta 240
atcaaaccct aggattgaaa taaataggat gtgtccatac agagcagcat atcccagaac 300
actgtgcttg gaagtgggtc cgg                                     323
  
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<210> 585

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029847

<400> 585

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gtttctccag tggcctggaa gtccatgtct tccaccaagt cctggaggca ggcttgtac 120
tggtcagagg taaggagat cggttggtg ttggagatgt gcaagtccac ggttttcagt 180
gatgaggctc ccccttcccg ggccatctct aacagctcct taagacatgt aggaacaacc 240
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aaccacagag tgtatcgttg ggaatgtctg ctctctcca tgaaggcaat gagatctggg 360
aaccacagag tcaggtcagt aaagaaaggg tcacagttac agcagccggt tcctggactt 420
gggtgggtaca ggctgtctt tgccacaaag cttaatagca tgctctgaat tcaaccaacc 480
accat                                                         485
  
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<210> 586

<211> 319

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029917

<220>

<221> unsure

<222> (1) .. (319)

<223> n = a or c or g or t

<400> 586

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agaacagcca gagcaggtga gtcgaggtgt tctgggtgac ttggggctca aggtatcaag 180
gtaactatgg caggtcggga cagcaagaaa gaggtccag gagaatgaga tgatgttccg 240
gtgttcaggc aagcangggg tcacagcaca ctgggattcc ggaagttgtg tcncgcgaag 300
cgctctgtgc cgaattctt                                     319
  
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<210> 587

<211> 537

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029969

<400> 587

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aaacagtttc atgcttataa aagtcaccga aggtcaagtt gtggcaagag cacgtacaat 180
aggaccaatc caagtagcaa agagggggag gcagagaggt tagaaagcag tcacaccgtt 240
gacacgaaaa gaacaacgaa tacacatttc tgtattttga aggcaattca caatcatttc 300
caggaattct gtgagaattt aaggccattt gttctaaaga aatgtagaca tgacttcaca 360
aaactgtagt ttgtataaaa actgtacatt gaaaactatt tagaattgat tgtgagcagg 420
cagatcaggg cggaggggtg ggctatttca cacacaggca ggtcgggcca caggggtgag 480
tttatttcac aaatgtgttg tgcgctgagt cacggggctg tgtacgtgga actgagg 537
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<210> 588

<211> 147

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029996

<400> 588

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cattaatgga ggaaagttcc cacatttaac acaacccaaa acggctgggt caagagccct 120
cttcaggtga gctgggtagc atgccct 147
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<210> 589

<211> 394

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030024

<220>

<221> unsure

<222> (1) .. (394)

<223> n = a or c or g or t

<400> 589

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gcaagttttt taatacagtg ataaattaga aatttacagt acagacatca atgtagacac 120
acttttgtac atccttaaaa agggggatat atttccttgg aaattcagca atttgttcag 180
ggcatggata gcagggggtt gccaggtagc tctacactaa gcatccgaat ggccccaggt 240
tgccctccagg gttctgcagt tactgaaagg catgaggatc cacgtaaaaag gcanagagca 300
actgggtaaa ctgctgcaca aaagacttct aactgtattt tatcggcttg cagactggga 360
ttattatttt agttcatcct tcttatgaag agcc 394
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<210> 590

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030069

<400> 590
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 tattcagctt cagtcctgct cgcagaaggc gggctttctt tctggttgtt tgtccatggc 180
 tctcagtcgt gctattttat ggtctagact cttaatcatt ggtgggcttc gaggtcttta 240
 catctgcagg cctaccgggc agatgtccat gtgacttttag gcatctgtaa ggtgacaatc 300
 cgacttagga ctccaagcag cgtagcgttc tgatgacctg agaatgctga ggtcgggtga 360
 gatcactgaa gggaggatag ctgacctcga cccgtgaaga gtacagtccg tgcttacgcg 420
 ttggcgccgg gacctttctg ctgccccaga cggccccgga cgccgcggcg gagttcctcg 480
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<210> 591
 <211> 192
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI030170

<400> 591
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 gcaaaaaggac cttgcccaga actcttcac cccagaaca gcaacttttc tccactcgcc 180
 ccaaggcccc ct 192

<210> 592
 <211> 399
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI030242

<400> 592
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 caggccttgg ctttgaacgt acccgttccc ccacatgctg gccccttccc ctggtccctt 180
 cctccctaaa cgctcgtgcc tgacctgccc acaggcagct actgccctcc agcagagtac 240
 taccatcatgt gatagcctga acctggccac tggtagggag cacctggttg ggcacatctg 300
 ggagcaagga ccctcagaaa gatttccttg gggcacgtcc tgagtggggc gtggggcaat 360
 aatgcttctt cagtctcccc ctttcttctt ctctcaaga 399

<210> 593
 <211> 372
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI030259

<400> 593
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 gggagggtag aatatgttct ttaggtacag catctctcac tgaggagtcc agaggctccg 180
 cacctaccac caggaagctg tgcataccca cagcccagac cccctggtaa tcacagcggt 240
 aactatcccc aacgtgagct gccgccgaag gctctacaca agcgagttgc aaagcctcac 300
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aatgtttctct ca

372

<210> 594

<211> 562

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030271

<400> 594

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ggacatgtct atataaaagg tatttctaga aaaaaaaaaa acccacaata aaatcaaattg 180
agccaaacaa aacataagaa gcctttggta cctttcaata acaaaagaga aacatattta 240
gatgattaaa ttcacacaat atgaaaatga aatattgggt taacttcata aagcagaaaa 300
ggagagccta aagaatatta gcatccaagg gcaaaacttc ctttttctcc tctttgattt 360
taataaacc ccagaatttg gcaaagaatt tctgaactt aaattgtctt ctggtctgca 420
gatacctagc agtatggcgt ttcccactca cctgatgttc aaatggcact gtctggtcat 480
gagcagcaca cttcctttgt cccacaagcc tacaggaagt caacactacg ccttgaaagc 540
tactggcctt ccagtcatgt ct 562
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<210> 595

<211> 394

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030449

<400> 595

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tgaaattaaa gttcaacatg gtaaagacaa ggaaggcgct ctaccctctt gacctccaga 180
gactccacag agatagcaac agtaaaggca gcagagactg cctgggtcag actgtaagca 240
gggagaagtt gggaggaaca gaaaggcagt aagaatgata ggaaagacca ctgatagact 300
gcaccctgac ttcttggaaga ggtcatggcc tcacagttcc accagactgg gaggcctgga 360
acggcgagct catctttttc cagtcactag aaga 394
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<210> 596

<211> 447

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030668

<400> 596

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caggaaagca gaaggtaggc cctaccacaa agaaaagatg tcattaatgg aggttaactt 180
tcaacgtaca ttaaatacta tcaattaacg totgaagaga acctagggtt tgttcacctt 240
gctataagca tgagttgact tttgttatgt cattgaaaac ataaaaatgc cttaaaaaatc 300
tcagctatta agtatgatct tactggaaat tettaaccac aattttcctt cctggaatga 360
tgtcgtgcct gtgcacccct ctaaacataa cggaaagcac agctaataga ggcgggcttc 420
aacctgttct accagtgaa acagctt 447
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<210> 597

<211> 398
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030835

<400> 597

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ttaaagagaaa gttataagtt catgggtactt tccaaggatc tggcggttaac atggggtcac 180
acggaagtcc tctggtagca cctgatgtgt tcaactgttct ttctcggtgc ctggtggttc 240
tgttgactgc tgctctgtga cctttaattc atgatgcttt gtccattgca tgataccaat 300
catcaccttt gtctcattct cttgtgtggg gaagaaccaa acttggttctg gtgaccagac 360
atctgagcta gttgttcttc aactgccatc agtttgat 398
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<210> 598

<211> 451

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030932

<400> 598

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gtgacaagag cagggttact gagttgtgag ctgagactgc tggaccttca ggctggcctt 180
gtccacctcg gtagactgag gataaaaggg acctaccagc cagttgagag gcgtgttgtt 240
aacaaggtaa tccataactt catctaagga ctcccttcat ttctgcagct gcccttgct 300
agaagtgagg acgccatcag acacttctct gaaggaggta acattgcgga acgcccagta 360
gatgtcacct gccatcacc ccaagtgtt ggctgtgtct tgaatgttct gtggtaaccc 420
ttggacgttg aacaggaacg tctggcatgt a 451
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<210> 599

<211> 191

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043654

<400> 599

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cccttatcac catcacaacg aattcttcca agttaagtgc gttgctcact atctgacgtc 180
caattctttg t 191
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<210> 600

<211> 410

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043655

<400> 600

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accttctatg ggcaggagga tgtccctcc tctgtatctc tttgggttca tcataaagaa 240
agccaagtag ataatcattt ctctgtcggg gggatcttgc catgtcccca aaaatcatct 300
cctcactgct gttggactcg gatgtggacg cccagcggca gtgagccac acatccttca 360
cctgtccctt ggacatctgc actgtgctcc tgcaagcagc tgttggcaca 410

<210> 601

<211> 370

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043724

<400> 601

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cagcctataa aaacatccga acaagggttt caaagcagtt cccaccccca aagcaacaca 120
cacaggacag gcctgagatc agttcattca aataatcttt gtacgcagag catcccagag 180
tatcacccca gcctaacctg gagaaacgtc accgacaagt gcagcagtc gggtcagcaa 240
aataaataga gttaatatat atgtgtgcta tctttgaata tacagtgaag accgggcccg 300
gtgccatagc acagagctcc ttacaagtgt cctagtggct ggacagtggg caccocagga 360
acccaagcaa 370

<210> 602

<211> 188

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043728

<400> 602

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ggaatcccat cctcagacct ccatctacag acgaggaaca tgccggacag cactgtcccc 120
ccgcgcctgg tgctcaccgt cagaccagcg catggcatca tccagcacgc tggggacacc 180
tctccaca 188

<210> 603

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043752

<400> 603

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ccaaaaacca aaaaagccca aaccagtaac agtaacaaga acctctgcaa aatttaaaca 180
accgttactc atctcacata aggatacaaa cccttccttc atagcttaga aagtaacctg 240
catcgtctga gacagacatc cagtccaaat tagtaaaatg cattttaaag cattacaagt 300
ctaagcatac agaaacagaa accacacccat cggtcagatg aacacaagca cttttggctg 360
gtggatgcag aaagaatgtg agtgtcggca ggaaggggta agaaaatggt tgatgttgaa 420
gcagtattaa tatggcgccc gccctaacct ctgctttctc aaaatgaaag cagagcagcc 480
acctt 485

<210> 604

<211> 346
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI043761

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aaccttcttc cccttaatat tccaaaacaa atgaagatga acatgaccaa ggtgcagaat 180
tcagctgggg aattagaaaa tgttaagcag gtagagaggg aaattgtaat accatagcat 240
ttaaaaactg aaagattgca gtcaagcgtc ttcacacatt aggatcaaag gaagacaatg 300
tatcgatcga ttaatcccaa aatgtagcta acatctagct acacac 346

<210> 605
<211> 498
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI043805

<220>
<221> unsure
<222> (1)..(498)
<223> n = a or c or g or t

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gaaagcttta acttattcct gttctaacat aaaccatggt taacaaacag atgcttgaac 180
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atcatctttg ttttttaaaa gtttgacctg aattactgaa atctaattgga ttctcatggt 300
cagtcatatg aatacgttat aatcagtaag aagtcagtat tgcacattaa gcttggacca 360
actcaagttt cttttttatg agttctttgc catatgtgtt ttgtgaaaag cttttttcat 420
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attgcacggt gcccgta 498

<210> 606
<211> 323
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI043855

<400> 606
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ccattaagta aatcatatac attgccactc atgtatcata tcagcctgct tggactgcag 180
ttccttcgtg gatgaagtct gcaagtccca gccctgctgt agagccagcc gctccctgac 240
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ttttttcctt aatgaatatg agt 323

<210> 607
<211> 487
<212> DNA

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI044247

<220>
<221> unsure
<222> (1)..(471)
<223> n = a or c or g or t

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ggatccagcc ttcaggaagg tcctaccttc caccctattc caggcagctg gtgaggctga 180
aagcatggga accaggcaac acctgctttg ggtggagaat cagcacacag gctgggcaga 240
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acttgccaag tgggatacga tccagcatga ccttagcttt gtgcgggtca c 471

<210> 611
<211> 356
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI044292

<400> 611
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cccgaacctga attttcacag agcttataaa ggaaaaaacc acaaaccagg gggatcaaga 180
gggagggagg aggggaattc caaaaccata aactgcccac acaatttagg actttgtgac 240
attgtgatta ggggtagtga cattttacag ggccattgga ccattgtggc cggaggctat 300
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<210> 612
<211> 477
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI044325

<400> 612
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ccgccacaaa atattttgtc ttttccttat agtttcagaa atcagtacca ttaaagcctt 180
aaacagaaaa ctaattccaa tctgaaaaag gtacaaaaag gcacataaaa tcccagtgct 240
tctgtactgt aaaattcaag tgtagctgag ctcggtgttt tccagacagt atcggatcac 300
tgatattccc tgggagccca aactgggtcg cagcctacgc caaagcctcc agcaagcacg 360
gtgctagtgg actacagagt taaagcctag cttctgtatg ctttttggga atatcaggtg 420
aaactgttca tacgtgtcca aaagccaagt ccgtcctgcc gttcagtcac caccacc 477

<210> 613
<211> 407
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044338

<400> 613

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ataaggtttc tactccacct gataaactgg cttctatccc caccatgggtg ccagttggag 180
gcacttggat tacagagaaa cagcagctgg cttgaagagg ggttttagtc taaaatctcc 240
cagtaggaac acagaacaga ttgaacttgt gttggggagg aaggttgcta cataccagag 300
taogtttcag tttctcaaac cagaggggca cccaaggcac tttccctgtc cccactcatc 360
ccacaatcca ccttacttgc tgacctccac ctctgtgtgt caaagca 407
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<210> 614

<211> 283

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044345

<400> 614

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ttgtccccta aggggaaggg ctgaagtata tggcctgtgg gctgaagctg gctctgttct 180
gggcaatcca gtgtcccaga gagacagggc catcagatgt ctttttccat ccagaatata 240
gggcacccct tcagatctcg atatcgtgtc tctaacgggc ttt 283
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<210> 615

<211> 447

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044404

<400> 615

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gatgccatta aacaccttag ggtttatgaa gacctgtaca acatgggtct ttttcagggg 180
ttcagggttg tggagatgtc acacatacat acctccctgt actgtaacac agaaatcaat 240
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tgggagaacg ctgtcccacg agagctgaat ttgacttgct aggagtaaat aggatttcca 360
tagcttgtgg tgaggactaa cgatctaagg aatgtaatac aaatgtatcg gaaagggcag 420
actaaattgt gaaaacaaac agttcag 447
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<210> 616

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044533

<400> 616

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ccaaaatcaa gaaggggaatg tggattctgc aaagccttcc acagcaaacc tgggccccag 180
ggaccctcct ggccttcact gaggaatgaa gataccactt gggagtccta accccgccct 240
gcagtaccca ctggacccca agatgtcttc aatccaggac aaagcaccct attttagccc 300
taagatccac actaggcctc agggctgagg agaagcttgg ctcatgactg gttggagatg 360
tgcttgatg ctgggtgcag gagaaacagc cactctggcc acagccagca cacaggttct 420
tgtgtcaggg tttcatcact gccatg                                     446

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<210> 617
 <211> 387
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI044550

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<400> 617
tttttttttt tttttttgag tactaacaat ttattaaaac aaataacttaa aagaaaaaca 60
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tggggcaagg gaagttgcta tattgaaatc aggggaatggt tctgccagta cgtcagacag 180
gtgctgtctg cagagcagat ataagagacc cctcaggtga taatgacagg gtcattctct 240
aaggagatag gacaaggctc agaaggggag aagatgcaag aaggacattg tgtcggctga 300
cacggtgaga cacaggttcc acagctgcta gcccgatgc tggctgggct gctgctgtcc 360
catctagtcc caagagatga cttttat                                     387

```

<210> 618
 <211> 263
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI044621

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<400> 618
tttttttttt tttttctgct cacatgtaac tattaggtga atcaaatgaa gtgggaaatg 60
aaagaccaca gtggaacgaa agtccccgtc cccgcctttc agtgcctttt acagtcactg 120
ccagtcccc aactctctcc tagtaaacgg aaaagagtcg agtaactcgg tgggagcttt 180
ggaatcttcc aaggctagtg tcggcagggc acggagtgga gaactgaagc aacgatctgg 240
ataaatcgca ggggaatggg tgg                                     263

```

<210> 619
 <211> 388
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI044900

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<400> 619
tttttttttt tttttttgag actgggtacc cgcattgttc tgaggaggat ctgttcttta 60
gtgtactgga aacacgaggt taccagcagg cacaacaggg accctttgga acccttataa 120
accagaaggg tcacataaat gtactgcatg tgaggtgggt agggaaagg acaaggggaa 180
gggggttaaga agagaaatct ctggtccact gtgactttct tcagcctgga cagttgctct 240
taaaggggta gctttcttcc agtgactgt actcttcaga gcagcagacg gctgcagggg 300
gtgcagccag cagcagacgt atcagaaaga gtaagtccta accccttggt tagaaaaaca 360
ggagacagaa gttttaacac ccacctta                                     388

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<210> 620
 <211> 460

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI044925

<400> 620
tttttttttt ttttttctaaa aaatcatttg acctcttaac gtgataatgt tttggggaga 60
cttctcaacc ctgtcttgct acccaacccc ttacaattaa caccgtatac ttttctgtct 120
ggagtaactc tggctaactc ggagagggaa gacaaagtgt agatctgggt gagatttggt 180
tacgtttcta aaagaagaac tccgaaagct tccagacttg caggcgtaag ataaagacag 240
cgttgacatt tgccggggagg tacggcgata gctgcttctc agctatcatt tttcccccta 300
ggcactgctg gctttctttg actattatag ttgccagaaa aatccttgct ttttttactt 360
tgaaaccagc atttgaatgg caagttggat ataatgggat gagaccaaatt ctttccattc 420
ctcacggggag taatgataga acacaatttc caatcccaca 460

<210> 621
<211> 320
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI045116

<400> 621
tttttttttt tttttttaat agttattaat agttttattg atggacaaat tagactttca 60
aatccattca tacaaacaca cattgatgtt tctattctga atcagttgca attagcatgt 120
gaaggggttt ttaatgcgta gaaatatcgg ttgggcttag tagcacatac caactctagc 180
agagtcaggc agatctctgt gagactaatt ccagtctggg ctacacaaaag atgtgtaaga 240
ctgaaagagc tacatggtga aaacgtctct caaaaacagg agcccaaaaa gataggaaaa 300
atattcagac cctcgtgccg 320

<210> 622
<211> 396
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI045195

<400> 622
tttttttttt tttttttaaa gttgcagatt gagtggaaat tcaaggcctt ccgcagggaa 60
gccagctcct catccttgat ggagatcttc aggtctgggc tgatctcaat ttcagctagc 120
aagagctcat acagcagttc cacctcctcc agggaggtct gcaggactgg attcaatggc 180
agggacaagg acctctttgg ccgatgggca gctgggaaca gtgcagccct gctccacctg 240
cacgcagtgg cctgggcgct ggagagcacc agcagaatcg tcagcacctt ccagggcatc 300
ttccaggagt gagacaaact gaccttctat tctctcagga ccccaggagc cacaggtggg 360
ccccgtctct tctctgcgag cctcgtgccg aattct 396

<210> 623
<211> 353
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI045253

<220>

<221> unsure
 <222> (1)..(353)
 <223> n = a or c or g or t

<400> 623
 tttttttttt ttttttctggg ttcagtcctc agctccagaa aaaaagaaaa aagaaaaaaa 60
 atttaaaaaat aaacctaataa aaacaaatct atcttcagtg agggagctgg caagaggggt 120
 cagcagataa gagcacttgc tgttcttgca aaagacctaa gttcagctat tggctcctat 180
 atgggtggctt gcaacttcct gtaattccaa ctccatgtag ttcttactcc tattttctgac 240
 cattgtggga catcaggtat gcacggggta cacacacata tatgcagaca aaacatttaa 300
 ataaacatga aatanaataa tctaaaagac cttcagagag gattggcaat gta 353

<210> 624
 <211> 457
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI045256

<220>
 <221> unsure
 <222> (1)..(457)
 <223> n = a or c or g or t

<400> 624
 tttttttttt tttttttcct taggatggat ccatttaatg actgatttgc agatgaacac 60
 tcttagtaca cagttgacaa taaaccttga ctcatacaaa gcaccagatc ctttgtttgc 120
 ctgaacatca tagtaaggct ggggtttcag gaggttgct gtctcggttt acttagatca 180
 gagtgcagat tgtgcagagc cttcttgctg atacattcat tactgtcgac ttactgtttc 240
 tatctgaaca agaacagcag cttttctcac cagaagtcac ccacattgct cagcttaaaa 300
 tgtcaccac ttggaaaggt gagcccatgt cagcatagta ctgctttaa ggagagtcac 360
 gtcagaagat aacagctagt tacagcaagg caaatgggct tacanaagct acgtggactt 420
 aatgtcagat atatcatgtt tagacaactt tacatga 457

<210> 625
 <211> 396
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI045440

<400> 625
 tttttttttt tttttttcca tttttaaaaa gatttatttc tatgcatata gatattttgc 60
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 ctggatctcc tggaactgga gttgcaaaca tttgggagcg gccatcttag gtgctgggaa 180
 tagaacctgg gaccctgga agagcaaccg gtgctcgtaa ccaatgagct atttcccagc 240
 cccctcacca atatttttca taactgtaaa agtaaagaca tttatttgtt aaaacaaaga 300
 caagttagggt gaaaaaaatc acacttaaat tcccccttag gaggaccgta ctaaacattc 360
 aggatgtagc tgctatcaca aatgcacctc gtgccg 396

<210> 626
 <211> 439
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI045441

<400> 626

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tttttttttt tttttttcag agcaacaaaa ataaaagctt ttatttggtc atttgaatat 60
aaaacagggc ttatcacaga tgtacaaagc gtactggtgg ttgaacatac aagaagggtg 120
ctgtcctttg cacataaaaa ttttgtttga aactgtgatt gggtgagtag acgagttttc 180
tctaaccagt caccacactc tgaaataacg ctgctaacat tcaactgata aagggaccgt 240
ccccttgggt aaagtgtcaa gcagggttaa atatgtataa tagacaagca ccatgaggaa 300
tctgctcctg ctcgatgggt ctgtgtctca atgtccttgt gtaccctctt tttgtgcaag 360
ttgattacat ggttttggct gactccaaaa gcacatggtc acaagacaaa catttttttt 420
ttaaaaaaca ttctcatga 439
```

<210> 627

<211> 453

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI045555

<400> 627

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aagggggagt agtccttttc agtcctctta agaagcaagg tggtggctct gcaatcctca 120
atcatctctt cagttcctct acgtacccaa aagcatcccg gagaagctgg agccgttctg 180
gatggtgagg actgccccag aactgttggt cacgaacaca gagacatact gtccagactg 240
taaatacagc agcccttgaa cctgcacggg gaagaccctg ctggtgctct ccaggcctga 300
cacagcctcc agggacgtat gacgggtgaca caaggactca atacagatga ggacacggac 360
cgtgtcccgg gtacgtaacc ggcctctgcc ctgcagttca ctgtgggtcca cgtgcaggct 420
ggcagaaaaac tggaagatgg cagagactgg cgc 453
```

<210> 628

<211> 422

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI045624

<400> 628

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cggccgcttg ggggcgctct ttcagtcttt aggctccgtg gagccgctct gtgcaggggg 60
acagccggaa agcgactcac cggagcgcca tggccacct cacaaccttt ttctgcaaag 120
cctaccacgg cggccaccta accatacgcc ttgctttggg tggctgcacc aaccggcctt 180
tttaccgcat tgtggctgct cacaacaagt gtcccaggga tggccgattt gtggagcagt 240
tggtgtccta tgatccacta cctaacagtc atggagaaaa gctagtgtgt ctcaacctgg 300
accggatccg gcactggatt ggetgtgggg ctgagctctc taagcccatg gagaaacttt 360
taggtctgtc tggctttttc ccgtgcatc cgatgatgat caccaatgct gagagactac 420
ga 422
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<210> 629

<211> 551

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI045802

<400> 629

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099100-0310
T07E20-00B2T660

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ccaagtcagc tccagggtgc ttggcccttt gctttggggc tgggaaagaa gcactatgtc 120
atggcgagg agagctgctc atttcacagc aactggcagt ggagaggcaa ggaaggacct 180
ggggctcctga tacaccccag taacataact tcctccgaca aagacccact tcagttccta 240
ccttctttaa gctaagggcc aagccttcaa catagatttg gggtagattt aagatccaaa 300
taggaccagc caccacgaag aaggatttta taggagcaat tataatggaga atgttaagag 360
ctaactacac cctttctaca ctagagaggc aggtaatgcc gcagaaaagg gggtaggttg 420
ataaagtccc acgcacaggc agcaagctca gaggattcaa aagcacttta gagggacttg 480
ccctcaaagc ctgctgctcc ctctcatcca gtgtccacac agagctgacc gcatttcagg 540
gtagcctggc t 551
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<210> 630

<211> 387

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI045881

<400> 630

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tgaatatcat gattttacag ttctagcaaa tggatccatg gccttggaac aaacctgggc 120
tgtaaaggca gcatttttaa tacctttatc ccatcctgaa aagtaatctg tcacacctag 180
gctgggcact gaattttaaac ttccccacat tgctaggcta tggctggaga aactgaggg 240
gtccagttaa cctgaagggtg gttggaaagg accgtatcac agcccctgca acaaaaatgt 300
gtaaaaaacc ctgttgtgtc caatccactg gctccctaga tttaaaatat cctgatattg 360
caccaaaaag ggtaactaaa aactgtc 378
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<210> 631

<211> 378

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI045972

<400> 631

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tttttttttt tttttttatc ggcaacatga attctgtatt gacatttggt tcttaataat 60
aacatccaaa atgcattctg ttcttatagc gctgtgaccg cgactgcacg gggtagggg 120
tttatgttgc cggagtcttc cttggaagtg ggaggagctg gtgattgaga tacactagtt 180
tctccttggg acctatatgc agcttgggtg ggtgctgcag caggcacctc ggctctggta 240
agggttgggg atacaacccc agcaggtctg caaacacatg ggcagagacc tctgccccaa 300
gccacaaga acacggacgc tgatggggcc aatggtggtg gctcctggag agtgaaaggg 360
acgctgagat gttacatt 378
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<210> 632

<211> 319

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI058319

<220>

<221> unsure

<222> (1)..(319)

<223> n = a or c or g or t

<400> 632

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ccgcaacaca tgtgagttgg gaaacatatt cgggacctt tctgggaaaa ctgtggtctg 120
ttgaaagggtg tanagcagac tctgagacag aacacttgga gtccctcgta gagaagaggc 180
atgaattact gaaagcagct tcattgcaag aactgtatca tctgctgtgc ttgaatatgg 240
tgccatgtgg aacaatcgcc gtgtgtaca gatgggctgc agcgattcac tcttgagcat 300
gacagacttg gaggaacg 319

```

<210> 633
 <211> 371
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI058341

<220>
 <221> unsure
 <222> (1) .. (371)
 <223> n = a or c or g or t

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<400> 633
tttttttttt tttttttgat tttcttcaaa tttctttatt atagtatttt tatacatggc 60
aaactgggat aattttaatt taactttatt tacacatata acttatatgg aaaaattctg 120
ctaacatgta ngatgattc tggaccacca tattctgaac aatatgtact ttttatcttt 180
ctccttgatc agagctcagt tgggaattctt taaaatgggtg tcactttggc aaccgcatct 240
ttctttacct ctcttgagct tttctcttta ttttctacat cttggatgga gtcaggcaga 300
ggctgattcc tcgtctcagg aagaagaagg acaacaaggc tactaaggat gggaagaacc 360
ccatagatga t 371

```

<210> 634
 <211> 386
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI058388

```

<400> 634
tttttttttt tttttttctt tttcttcca ttttcgatca ggatcctctt cttttttctt 60
tttcttcata ttgtgatctg aatcagatgg tgtttctggg ggaacaggat cctgggtacg 120
gctctgtttg tgcttatgct tattcttctt cttgggaggc tgaatatgca tcagacgaca 180
ctgctctggc aacgggccag tatggaggcg gaaaccagac agcatggtcc ctgtgatcgg 240
attaaaagag ccaccaagaa taggaggttt ctcaatgagg gagcggaggc tgctgttgct 300
atggggagcca ggaagatcaa tcatcccacg gaggtcaggc aggaagttac ttagcttctc 360
cttcaacttc ttccacaga acttat 386

```

<210> 635
 <211> 467
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI058430

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<400> 635
tttttttttt tttttttata aaacttgata aaaaatagta tttcaaactg tacagtcacc 60
agaagtacac agttatcaaa aacgcacaca cgtcacttgg catctccagc accgtccgct 120
ttctgtgcct ggtctgtttt ggcattctcg ttttctgcag gattattcgc atccttacca 180

```

```

gcatccgctt tcccccttctt ccccttgggt accttctctc ccttctttgc aggggccttt 240
ttaggcttgg gctctggctt tggaggagca ggtttagcag acaaccttgc agatcttctc 300
tgtggctcgt ccttcacctt ggctttgtct ccttttagcat ccccttcagc atttcttttg 360
ggcatggcgg cggcagggga cgtcggcgtc gagcacgggt ttacagcggc gcacggggtt 420
ggtccgtccg ggggtcgtcc tcgtgcttc ttctctgtgc cgaattc 467

```

<210> 636
 <211> 496
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI058436

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<400> 636
tttttttttt tttttttagc ttttgtttgg ccttttagtct gaaaaagtgt tgcttgaaag 60
tgtacaacag agagcgggtg caagcggcta ggggtcacag agccgccaat aaaaaagaat 120
gtccttaaat aaagtgttca cagagtaaaa atcagaacta ccagtccttc cctccaacac 180
aacagagcac aggcacagaa ccgatatgctg atgagcccaa ggagtaagga ggaggtgga 240
gaggacagca gaggctccca ggctgccgcg tccagaggga gagccctctt tggaatgggc 300
tgaggaaagc cggccagccc cctacacacc tcataccac tgctaaggct aaaagaaaag 360
gacaaaactc agtctcgggt ccaagggtctc agaacagtcc aggtgggcag ggtccggttg 420
actgctagt cgcgttggcc ttcttcttgt cactgttgcc attctcttca gccccctccg 480
tggagagtgc ctctc 496

```

<210> 637
 <211> 490
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI058581

<220>
 <221> unsure
 <222> (1)..(490)
 <223> n = a or c or g or t

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<400> 637
cggccgcggg acacagccgg ctgcagtgtg gaccatggac tggagctatt gaagacccaa 60
aagaaagaaa atgttgagag gtggaatgag cttggtgggt gaagagatgg ctgaagattc 120
acacttgagc tgtttcccaa aactaagtgc tgcaggagag cagaagcagc tacctagcct 180
gccagagaca tgctgtttct aggctanggt gactgctgac acaagggaagc aaaaaaaatt 240
aaaaatactg gagcgtgtga taatgatgag ttcagataac gcatgggttg agttttcggg 300
ccctgggaca tgctggagat gtactgttgg tacgtagaca tgacagaaca tgatgaatgt 360
tctcagaatg gaagaacatg gcaaagaaaa gttggagggt tgaaaagaag gaaagactta 420
actctaagga gagactcagg ctttggacta ctgctctttt ggaagattta aaataaactt 480
tgaatgttaa 490

```

<210> 638
 <211> 376
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI058603

<400> 638

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tttttttttt tttttttgct ttgttcaact ttatttttct ttcaagacag attggactag 60
taagtcgagt gatagttggt gaaaattcta gaaagcaaca agaggatcag gaaggagatg 120
gagcatcgag acatggacgg tgaagaatag gatcatgggt attcgtttagc tttcttcttt 180
ctctgttgac aaggcagctc cagttacatg ttattagga gcctgacttt gtagcagaat 240
gggaaagaag ggacttaaga gtgagtccag ggtaagcat gtgctatgga aggattgttt 300
gattcagcca taggccccatg aaggagagac actgcctgcc accccatccc agcccaagtt 360
cctttacagc tactca 376

```

<210> 639
 <211> 346
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI058746

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<400> 639
tttttttttt tttttttaca ttattgactc agtgtaatgg cttaaaaaac aagggttcctc 60
aaggactgcc aggggcccag gcatagtcac atcctttgtg aagagcggaa ggaaaaggag 120
gtgaccgaaa attaatgtag gggagatgaa aacttcctgg gaagagaaga ggaagggtaa 180
agtgctgtgt taggagccaa gcgacaggag accctgagggc cagtgatgtc atcccagaaa 240
caacatgggtg acagaagttt aaaatcttta agccacgact ttgaaggact agtgcagcag 300
agcgagcacc tatgctgagc atgacagcct ttgctacccc agcaca 346

```

<210> 640
 <211> 371
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI058956

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<400> 640
tttttttttt tttttttgat ttaaattggtt ttattaaaaa aggtaccact tgatgggtga 60
gagggtatatt acacatgtat acaaataaag aacccaaaaca gtcaaatatt atatacaggt 120
taaaacataa cagtcccatc tcctttcctt aaggcagaaa tgcccagacc ccatgccaac 180
tgaactgggg atggaggaaa tgctacatct cactgggtct ccccatgtca cttgctgtgg 240
accagagaaa ggggtagaga cagacagctg tagagagagg ggcagtgcaa gctggggggcc 300
acgtatctca tagcaccttg gccaaagctg ggcacttatg gaagagacca gctttgttct 360
gctgttcccc t 371

```

<210> 641
 <211> 324
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI059270

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<400> 641
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acccttttca ctaccatccg attgtcactc tgtaataaaa cacatacccc atgctacata 120
ttggaagggc taagttagt cctaagcggg tatcaaataat gaatctgcca tccactgcag 180
cacgctggat gctaacacgc tgaatacagt taacatttaa acagacttac ttcttcctgt 240
aatttaaatt cagaaggatc tgctgcaaca gccatgaagt aaagcagtct tctaaattct 300
tccctatttt gggaatccag aagc 324

```

<210> 642

<211> 243
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI059386

<220>
<221> unsure
<222> (1)..(243)
<223> n = a or c or g or t

<400> 642
tttttttttt ttttttttaca ggtgaaataa attttttattg atcagtataa aatattttcaa 60
cacacaatgt cttacatttg atattgtctt cagtctgggtg actgttttcct tgcaatagtt 120
gggatagaat ctgaggcctc agacatgaca ggcagggtcct ccactactaa actatgcccc 180
agaccggagg gggtcttango aagtgtctct ctattgaaac atggccacag ctctcagtg 240
gta 243

<210> 643
<211> 405
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI059389

<400> 643
tttttttttt tttttttcac tgactcctgg atgtttattg cgtcatggct ccaactgaac 60
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aaagcagaat ttttaaaaaat gtaccagtg ttgatttcac ccatctaaaa ttgttgtaga 180
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<210> 644
<211> 493
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI059444

<400> 644
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agaggttttg ttttggcagt gctggggata caaccaggc ttttttattt ggtaaaaaa 300
aaccctaaaa actatcacta caaaaacaaa acaaaaacaaa aacaaaacaa aaaaacccta 360
atatattaaa agctacttct ttctgtgaaa gagaaaattt gaaattaaat ttgttgtcac 420
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tattccaagt gat 493

<210> 645
<211> 299
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI059543

<400> 645

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cccaaaggct gacgctgata ctctatggct atgtggaagc cacgcaggtg gtgacatggt 180
caatgctcca actaggagcc catacagcag aatcagcatc cagggcaggc ttataggga 240
tggcgctgtt ggaggacgcc tctgtagacg ctccaatgca ctcccatgca ttggggcca 299
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<210> 646

<211> 374

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI059604

<400> 646

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ttacttaga aaagagttta cagtaaatcc agtctaaaca agaacctact atcagttata 180
atgtgagttc cttcctttct ttgtgcaata aggaggtta tgggaaatgc tggccccaca 240
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tgccggatgc ttcc 374
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<210> 647

<211> 250

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI060071

<400> 647

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atgcggacca cacaaacagc gccactgtac acattaccac aggcagcacg aatgaggacc 180
acatatgcct agcatggcac aaaaggaggc caagtcagtc acagacacaa acattggcaa 240
aggtggggga 250
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<210> 648

<211> 390

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI069920

<400> 648

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aaagaccacc cacagggtcg cacatcctcc cagaggccat gcctcccaat ccttctaata 240
ctatcaaacg gttccaatcc ctggtgacct aacctccaaa tatgagacca tgatcccata 300
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<210> 649

<211> 504

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI070068

<220>

<221> unsure

<222> (1)..(504)

<223> n = a or c or g or t

<400> 649

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gctggctcct ggctccatag cccaaggggc gggcgggcgc acactcccct ctctcgtct 420
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<210> 650

<211> 306

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI070152

<400> 650

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gtgccg 306

<210> 651

<211> 344

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI070233

<400> 651

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aacaatctgt ccaaactgaa gcaagaagga aggtgggttag acttcagaaa tgactttccc 240
aaacacatgg catgattggg aagggaaca caaggggcca actccataaa gaatcttggg 300
gacctgggga ggagggaggg ctgggtgttca aagcagcagc tttc 344

<210> 652
 <211> 408
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070319

<400> 652
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 acggccctcc ccatatgttg ctgaactgga gggtgggtt accatggcaa ctgtgagacc 180
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 gtagtggcgg tgggtgggtgg taaggctcca tctggacctc catctccacc tcctccaatc 300
 cactttcatt ggccttctag aactgagatg tacaccgctc ggctccaaaa aggggtctctc 360
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<210> 653
 <211> 471
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070350

<220>
 <221> unsure
 <222> (1)..(471)
 <223> n = a or c or g or t

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 gatacagtag caatgccccg ttccagggcc cgggtgtcat gcaaaataat aggaaggcgc 180
 acttgcccg gtagtagaaa gggaaccaga acaggagtag atcgctgaag aactcgacta 240
 gaccgaacag ggcgtacacc acccagtagg ttagccacac agtgtcgtct tccttggttg 300
 ggctctcgat agctttgact gaagcatatg cgggggtatac aaatccgatg acattgcaaa 360
 gtagagacgc ccgtagccg aacagaagat acaggcctag aagggtgagg gctcncgcgg 420
 cgagataccg cttctctaca ccggtccttg cttcgagcgc cccagcgcg t 471

<210> 654
 <211> 332
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070421

<400> 654
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 cagaagttgg tctatcgggg ttctttctca acagacatga tttctagaaa cacagcagcc 180
 atcttgtgac tacgaagcaa ggagcaatga gattactgag aggaggcccc gccctcactg 240
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<210> 655

<211> 554
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070511

<220>
 <221> unsure
 <222> (1)..(554)
 <223> n = a or c or g or t

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 accttcctga gctccgcctc tgtctgttgt aacttcactt cgtcggcctc ctggacctca 180
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 cgctgtgctt cactccgctt ggctgcagc ttgccagct cccgggctgg gtccacgagc 300
 ccctgcagct gcaggtggat ggagcagcgg tctgaggcca cagccacagc gcagccctgt 360
 ggtgcaggag caccagggc caagacggcc accacaccg cactggccag agtctgcacg 420
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 ctcagcgcta gctc 554

<210> 656
 <211> 286
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070611

<400> 656
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 gacaatatca tgctgttcat tgataacaata cagccctgtc ctgggtatac aagtctgtga 180
 catcattcac tacatgaatt tacttcatga gacggcatag cagaataaga ctaactaaag 240
 atatatattc ttagtaagaa aatgcctgaa ataaacaaag tcacaa 286

<210> 657
 <211> 428
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070879

<400> 657
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 tatacaaagt tcaaaaacta gtccacaggc actcgcccaa tctacagggt gccgttttaa 180
 tctcaaggct gaaaactgct tttcccaaca aacagcgctt tgccatggat atgtattagg 240
 ggtagtcaga aagttaaaga atagaacttc agaaagaaac ctagaaaggat atcttcatga 300
 gagggcaacag tacacttttc acaaggaact aaccttaaag gaaaatgtta ataagtggga 360
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 aagggatg 428

<210> 658

<211> 381
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI070895

<400> 658
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agctctaact cagtcgtccc t 381

<210> 659
<211> 384
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI070903

<400> 659
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atccccctcc aagagtagtc tccaaggaga agggagagaa acacagggat cagcaactgg 240
ttaagagggt gaagcgagtt ccactctaaa cacctctgga agagacactg cgagggtcag 300
gccatggcag acagaaggcc aggttggacc cgtttgaatg atggcttgcc caggaccagc 360
agacatctct gggcatccga agga 384

<210> 660
<211> 509
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI071162

<220>
<221> unsure
<222> (1)..(509)
<223> n = a or c or g or t

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gctgcattag tgggtctttc ctggtataga cttactatg atttctgata gcagctcctt 240
atcaaatgga agctacaaac tcaattttta aactttgtta aaagaatgac taaaattctg 300
caaactaagt agttgagttt acagaaattc tgagaaaaca actgagataa aataactaagg 360
ttaataatta tcacatatac aaaactctct tatattcatg attcttatac taatatactc 420
tcaattaatt ttgcaaaagt tcatctcctg ngtacaaaaca aaccttgaga ccaaactctt 480
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<210> 661

<211> 504
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI071166

<400> 661
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 aatgcataat aaagactgtg cttctaagcc tttccagtct gggtaagggtg aggggacgcg 180
 ctgtgtgttt gtggtgacta gtcagccctg tttaccttcc aggatttggc acatttttctg 240
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 gggacccatt cagggggggcc ctgaaaagcc agcgaggctt cgctcagtgc tgacaggact 360
 tgctgttgaa acagttttttt ttttttttct aaccgtccca tttgttgcca taaccaccac 420
 agagttatag tttgacactt tgccaagaca gcttggaat ttggcttctg acagactccc 480
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<210> 662
 <211> 472
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI071177

<400> 662
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 aggaactgaa agtaccacgc acaacaatct tatgcacttt gaagcatgtt agagaggacg 180
 atggcaccat tggataatga actactgagg aaaggagagc cctggccaag ttacctttgg 240
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<210> 663
 <211> 519
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI071181

<400> 663
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<210> 664
 <211> 555
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071185

<220>

<221> unsure

<222> (1)..(555)

<223> n = a or c or g or t

<400> 664

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aacatttctg gtgagaaatc cagtgcagg aaaacataaa caatactgag caaagtcttc 180
tcccacctag actattcaag atactgcctg gtcctgggtt gggtttagcc atgttttcta 240
acaaaggctt ctattctgta aagagaagat tggacagctt gtgtagaaca ttcattggtta 300
ctattactat atgttctgtg gccacatgca cttaacagcc acacatgtgc acaaagtcatt 360
cattcctatt aggccttagct aacaacaaga aaaaagaata cctttccacc ttgttctgca 420
atgtgacaag cgtaagaag aggggaaccaa tgtatgtgtt cagccattcc atatagtcatt 480
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ccttacctaa aaata 555
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<210> 665

<211> 519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071194

<220>

<221> unsure

<222> (1)..(519)

<223> n = a or c or g or t

<400> 665

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ataagtcagg gccaaaggaga aggtgtcatc atcatccatg cttgtggcan ggctgcaagg 360
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ctccagcatg ccacgcctt gaccagagc accattctc 519
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<210> 666

<211> 496

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071227

<220>

<221> unsure

<222> (1)..(496)

<223> n = a or c or g or t

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI071538

<220>
<221> unsure
<222> (1)..(510)
<223> n = a or c or g or t

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ccttcgatgt tggggctttt ttacttttaa cgggacacag aatggtttgt ggggcangga 420
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tgcaccaagc gctggggacg tagctccaca 510

<210> 670
<211> 498
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI071578

<400> 670
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agcgtacaac tgcaactcta cgtaaagcc acaaatgcac aataccgttt ctttgtctta 180
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cgttatataa aaattaaggt gggctttcag tccggctaac acaacaacat tccgtgaaga 420
gacggcattg tcagatttta tttttgttta tccatttcat tgggagcaag gacaaaaatg 480
taaaatctat accttgct 498

<210> 671
<211> 330
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI071642

<400> 671
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gtgccaggat tgaaggtcta tgccaccctc aatcaatccg caccgtttta taactggagg 180
ttccctacaa tcaatcctca gtctttaacc tcaaccctgt aacgttcaat cataatcccc 240
aaggatcctc gggccacact gtctagaatc tgttagatgc cttttgggtcc ttttaacaagc 300
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<210> 672

<211> 336
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071858

<400> 672

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atttttcatt attgaaaata aacagctttt ctactggcat ttgcttagcc acaacagtcc 180
tggttaaagaa aacagagtgc cctcctcaag caaataaaac attacataag caaaatcact 240
tttcagctgg attatttctg ggttaaagaaa gccacaaaga gcaaatttat gggtaggatt 300
agggtgaaaat ttttcaaag gttccacatt aactta 336
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<210> 673

<211> 334

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071867

<400> 673

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ctcccaagat gtacttgtag gttggaatgt tccagaggcc ctgccactta tatgtcttca 180
aggacagcca ctcgagggtc ttcattgccac agtagatgcc cagcccgttg cagaggagta 240
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tgtactccag gaactcgaac atcacactga tgat 334
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<210> 674

<211> 271

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071868

<400> 674

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atagatgggt atctggctag aggtaacaac caaggaaaga gaaaacaaag aaagtcatac 180
aaaggaggca gagatgggat tttgtctgag ctagatgagt ttgggtgcaa tgtgaggagt 240
ctgtttcatt gaggaatcac tgaggaatct a 271
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<210> 675

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071965

<400> 675

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aactcatctc cgagttcaca cactggggac caagtgcac ggccaggcaa gattatacag 180
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ggaaggagaa caagagtctc agccttcggt gagccaccat gcaaggaaaag caacagagtg 240
tcaaacggga gaagcaacag agtctcagct ttccagtgatc caccgggtggc ccctgagctc 300
ctgactttaac agtgccctcaa cactgtcgcg caggggagag tccaaacaca aaggaactca 360
acagtgtcct ggtgtttttg taacacacct cttgctatat caatatagct ctgactgtcc 420
tgcaaaaagaa ataacttcag aggggggggca 450

<210> 676
<211> 384
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI071967

<400> 676
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agtcaaggct cagtcctgct gtagtcatag cagaagttaa agttggtagg aggtgggggt 180
actgggggag gatgctcagg aatgggcaca ttctccagtt ccaacaaccg caacttggctc 240
tccatagtga gcagctgctc caggtctagc cgagtctgtt cactcccat agtactgcc 300
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ttgaggtatg cttccctcgt gccg 384

<210> 677
<211> 335
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI071990

<400> 677
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aagtccactg tgctgttata agcctggaaa agagtatatca cagataacag taagattatc 180
cctgtcctcg gtgaagtaac ttagaaaccg tctctcagaa caaggcttct gaatcaacga 240
tgatgaagac ataaaaataga aacactcaat ttgctcacac aaatgctcac aggttctgat 300
ttgtctgttt tagatttctg agacaagcct cacta 335

<210> 678
<211> 362
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI072014

<220>
<221> unsure
<222> (1) .. (362)
<223> n = a or c or g or t

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cagccatgga ggctgacgcc tgtgccattg ctcagctctgc agctcgtgta aggatcaagg 180
aggtgacttt aagttacaat cacacttgct ctgctagatc caagaccctg aatttatcca 240
aattgtagaa acaggcttta accaccgctc caccaaaata cctcccatc agatcgacaa 300

cagctttaat tgccgattcg actctctcan attctagaaa tatccgtact gcttcatcat 360
ca 362

<210> 679

<211> 367

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072054

<400> 679

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tatcagtgc aactcccaag tgtccacctg gaatagtgcc tccttgctga gtggttggat 180
ccctccatgt ttccaagtgc cagagccctg tctagcacct gtctgctggg acattcggta 240
gtagcgtcac tcgtcagtgc tcagtgcctt gcagcattgg cagagtgaac cccctgggc 300
caacctatat gaagacctgt tgtagcaggc tgatacctgt tcactctagt ctggtgcaag 360
agtttga 367

<210> 680

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072092

<400> 680

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tcagatccca tgggactgga gttacagatg ctgggaatag aacttggatc ttccagagga 180
gcaaccagtg ctcttaatct tcccagctac cactgccaca gccccggat agattttaga 240
acagcactga gtttagcagc attaaatata gatttgtact cccagctct ggaaatctca 300
tagccctgca ctcagaagcc agtatatgga tggtagacct gatcttctcc acctccgttg 360
tcagctcctg gacttcatgc agtagtcgtt ggtacttctg ctgtggtgtc tcctttactc 420
ccagaacctc tccaagcatt tcatagtctc cagactcata tcctgtcctc ttggtctttc 480
caatgcgatc tgagaaatca agcccctttg tc 512

<210> 681

<211> 419

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072107

<400> 681

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tagagtgcata tataatcatc cttttttgag aggaccatc ctctatactc ttttcatgca 180
gtgacttctg gcataaagca caacacagac ctccatgtta atattcatcc aaaaatggaa 240
aatcaggggtg gccctggaat ctagaaccac tcatgtaacg gatattttta tttaggccat 300
caaggacttt catgtcttct gaagtcaact gaaattcaaa aacctgcata ttctctttta 360
tcctcttctc agtgaaactc ttagccagga ccacaacccc acgctccagc tgataacga 419

<210> 682

<211> 380

<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072137

<400> 682

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ttgaaagggtg tagagcagac tctgagacag aacacttgga gtcctcgtca gagaagaggc 180
atgaattact gaaagcagct tcaactgcagg aactgtatca tctgctgtgc ttgaatatgg 240
tgccatgtgg aacaaacgcc gtgttgtaga gatgggctgc agcgattcac tcttgagcat 300
gacagacttg gaggaacgag cagtgcacaa ggtggttctc ttaaagggtgc acgtgacact 360
gcctagttag actccctcca                                     380
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<210> 683

<211> 497

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072246

<400> 683

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gaggtggaca gggcgcccag gcttgccctgc gccattccac acctccactt ctgtgggtgca 180
actgtcctga gcatgagaag ggcttgggaa ggcattctaat gtatcaagct caaccgttcc 240
tctcgggcta ctttccaggc catgccaaga gtaaaacttct tgtaccagggt caatgtccct 300
gcaagggggtg ctgacaggta gataagtaaa gcagcagcag tctgggaaaca gacaccgagt 360
atctttttcc tgaccaggac gaaagtcagt aagagacaaa aggacttcag tgccccatga 420
atcctctggg gttcgtatgac agcacagcac aggctgagac aggggttgag tcattcctga 480
cacctcataa cctctcgt                                     497
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<210> 684

<211> 346

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072278

<400> 684

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aatcattttc acagatgcca gttgtcacac accagcttca ggctcaccac atacctggga 180
agcctttgct tttattctcc ttgccataga gatttgacat gacagtgggc agaaagctgc 240
agcttacagc ccgagggata atcttcattc cactatcagc acagtgagcc aggcagcttg 300
gtgatcccaa aacttattta tacgcagaac acggacattt tgcgta                                     346
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<210> 685

<211> 431

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072384

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 <221> unsure
 <222> (1)..(431)
 <223> n = a or c or g or t

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 ctgatcctac agctgtctat agagccccc a cctgaccctg ctgatatcat ggctgagtct 180
 tctccccaag caagataggt aaggaattct ggaagttgga ccattcactg aggagcgatc 240
 tcttcactcc ttccgagett ctaggctacc cagcaccagt gcagcctggg tcttggcttc 300
 ctgcagaagg ctggagattc gatggcgtgt cttctcttta aatacatcat ccgtcatgtc 360
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 tgccacctgc a 431

<210> 686
 <211> 432
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI072393

<400> 686
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 tatataatta acagccaagc gatactaatt ttatatattgc agtgtcttag ttataggtta 180
 ttacataaat ctatgttctt gtgataatca tgtttcccaa aaggtatggg agctaaattc 240
 tgaaattatg atataaaaag ttcaaatttc caatttttaac agcgacgtaa catttcccaa 300
 ggcggaagt gccctgctg tcagtcctctg tgagtgtctgt tttattccac gctcaacca 360
 gagtctgttg agttgggggtg aatcacagag acacacacat caatctcatt tacttcctgt 420
 gtgtgcgcct tg 432

<210> 687
 <211> 274
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI072476

<400> 687
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 tagtaacctt attttgttaa tagggaatcc aaggtttgac aaggttaatt cgctgaccaa 180
 aagccatagt cagggtggctc aaggactcca gatcccaagc tcagtttact ggccatgaca 240
 ttttcttgca ctttatgtgt gaggtatata accc 274

<210> 688
 <211> 283
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI072578

<400> 688
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gctggccaac aggcgcgggg cggaggcggg aaccggggctc ggacccggcg cgcaaggcgg 120
 cggcggcggc ggcggcgacg accgcggagc agcagtctcg gcgcgacgtg gaaggatgga 180
 ggcggcgggtg cactaggcct cgtctggggc tgcagcccg actcaaattg gttccagaaa 240
 cccctgtgcc aggatcagat ttgcaagtat gtccctcgtg ccg 283

<210> 689

<211> 352

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072633

<400> 689

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 ccagcctcct agcagcagtc cagtagagca ggggttggag gcacccttgc cctcccaactg 180
 agaattcctg cagcaatcct tcaatggcaa caactgtccc tgcctcaagtc tcccatcttt 240
 atcctcagct gcctttttccc ttcaaagagc aggatgctcg cagccatggc tgaattcaga 300
 ctgtccacac caggtacaac agggatcagc agtctcttgc caccagtact ct 352

<210> 690

<211> 333

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072634

<400> 690

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 catccacgac cttacgggta gttgtcctct ggacagtttg catggagttg ctggagtcca 180
 gggcgtcgtt gagactgaaa tcgtcccat cctccaacaa gcggcggtag gtggcaatct 240
 ccgcctcaag cttgaccttg atgttcaaca gggcttcgta ttcttggttc tggcgtctgc 300
 cttctgcccg agtttgtgcc agctctgatt cca 333

<210> 691

<211> 359

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072643

<400> 691

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 tcagtgcgtc agaaaaaaga ctgcttctgg cctcctttct gattaccca aggcagtctg 180
 gtcaccgtgg aggcttattt aaaactggaa aaagaggtcc tttgtgacat cctgctgcca 240
 ttcaagatgt cttcttgaat aagccctaaa gtcactcact ttctctgtgt gttccctggt 300
 ccactctcac tcaactacagt ctagtcttta catggcaggt agcaagaata accttaaat 359

<210> 692

<211> 434

<212> DNA

<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI072712

<400> 692
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ggtgtcagaa gagatgggga gcattttctg tcctacgact aaatgacatg aatttactgt 120
acaatgacag tgtacatggc tagggtaagt agcgtcacca aagattagtt ctctcgctta 180
cactaagtag gcacgcacat cccaccccag caccgacttc acagtcagct gtaaagagtg 240
gcatttcact ggatgcctcg agagacagtt ctgttggagt atttgagttt aaagactttg 300
aaaggaaaga gaatttggct gaaaagtatc cttttcttta gttaaatcga aacaagtctc 360
cagtcagcac ccagtcaaac acagtgcctt gaactttggg taatttgcg gacagtatac 420
tccacgccac tgtg 434

<210> 693
<211> 499
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI072812

<400> 693
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taattctata gtagagaagt acaaagtctg cacaagtaag actttataac agaattttca 180
atcctgcccc aaggaaaata aactatacat atagtccaat ttaaaaaaca aaaacaaaac 240
tttaaaagtt gtgcttaaca tagtggactg ctacacagca tcaagtctta gagcactgat 300
gtgctccagg gacgacggcc tgacagagtg aggacctgga gtgctctctg agagctcctc 360
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ttatagtttc cctcgtgcc 499

<210> 694
<211> 251
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI072866

<400> 694
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tagtagcatg tctaaaacc aaactctaaa acgtttaaaa acatttatat tagtttggtc 180
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gtgtgaaatg g 251

<210> 695
<211> 388
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI072914

<220>
<221> unsure
<222> (1)..(388)

<223> n = a or c or g or t

<400> 695

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tacctttgtg tctggctggt ctgctgcata aactcttcaa caactatgtc ctccgatctt 180
gcaggaccag caaaggggaa aggagagtta tcaaaccctt ctctgggctt cctccacatt 240
cttgattcta tagaggtaat cacttccctg cttctcagcc ttccctcctt tgcccatgg 300
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aaacagtgtg gcatggggta caggga 388

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<210> 696

<211> 506

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072959

<400> 696

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caacaaatta tcctttttcc cccaaagtaa attgcactag ggtactaggg tttcttccaa 180
tttgtgattt tttttttttt tgagccagtc agcactgccc ttctcttcc tgactcccct 240
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gctccttggt gagaacatgg taggcacctt catacatctt gagtgttttg tcctgactcg 420
gggatgattc catgagcagg tatgcacctt tgctgtcgca tagccggtca gcagaaccct 480
gcagcagcag gaacggcagt gtcagc 506

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<210> 697

<211> 242

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI073047

<400> 697

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cagctagcac tgaatcgag ggctgcgaca caatgctata ctggtgtggt gtcagtagca 180
agtaattact acaaagagaa tttcttggca ctgatggttt aatggagctt aagtcagacc 240
ta 242

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<210> 698

<211> 343

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI073059

<400> 698

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aatgatgagt agcaaagggc aggcaggcct gtgcctgctc acatccaagt ggaaacaatg 180
tctctgaggt ggggctgtcc aggtccagcc tgttcaggct tcacagccac acccacaatga 240

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gggctcttga gtgaggccgg cgtagaaaag gcatgggaac agaacctgta gaaaatccca 300
actaccataa ccagcattca ttcctacttg aagttaatct ctt 343

<210> 699
<211> 595
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI073092

<400> 699
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tataatttttc ataatagaaag ttttcaggat gaaaagtttt cataatgaaa gaaaagggtat 180
ccattaaaag aaaaaaaagg agtcataaaa ttatattcac aaatatagta caatatgaca 240
aagcaattgg tcagtctttt gggtaaagga taacaaaaat gcaaaaacag aaattacatt 300
atgccgttat tacatcaaata taaaatgca gggttggttg taagtataga cagtgaccaa 360
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actcacatct gcaaacttca gtctccaaaa gagaacttta acactcaagc attattgtca 480
tactgtttta tttgaaagta tgaacaatgg tcctactaca gaaattataa agcaccactt 540
aatgtgcagt gaaaatagag tgtaatagaa tgaacagttg aaaaacacct gagac 595

<210> 700
<211> 437
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI073257

<400> 700
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gaacaacaac tacagaaaag atactgtata gaacacagtg gacattaaac tgacagtagt 180
attagatctt actggtcctg gttcattcaa tttttaccac atcttgattt gtactggaaa 240
cagttcagtg catgtatctc ctcagaaaac atttaactta gactcaaaat acaatagggc 300
agtgcataac tgcgaaaacc ctaccacagg ataacattac aagcaaaaaa tgtacatgtt 360
ccaaagtcta gcaaactcaa gaagtacta agaactcttg cacaataaaa gtcaccattt 420
tagaaatgca aaccac 437

<210> 701
<211> 477
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI100769

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taattcttta aattccacgg gcatagctgt tgcttttcat catcctgaaa attataccca 180
cgactgtgaa agccacatta atgtttgttc agttctgtct gtataagtaa cataaaaatg 240
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ctccctagaa aaaggataat attttctgat tgcgcaagca gtttatgagt gtgctatttg 360
agtctatttt gacagctgcc tttcatttgt tattggagag cctcttccag caggttcctt 420
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<210> 702
 <211> 476
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI100835

<400> 702
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 acaaacagcg acactcactg gacagtcagt taccctcaca catgggaagg acaaatggat 180
 gtactgtgga gccagtggt gcaagatgcc agagtaggga cagacgtgtg gaagagcggg 240
 tcatggagtt agcgccagaa taactcagag accaggtgat ctgttcaaga tagaaatgga 300
 ggtgccttcc ttccactgtg acccatttct ggcttggact catgtggggc ggagaccatg 360
 ttaaagggtgc taaagagaca agacactgct cccatttgtt ggctatcaag gtccagtga 420
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<210> 703
 <211> 362
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI100871

<400> 703
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 ttcacaaaag ggaagagggg gtggaggtga gggcagggac taggaggggt gctttttgag 180
 ctgagtctaa aaaaaaaccc agtcaggatt aggggaaaaa aggagggagt ggcttccaaa 240
 aggggacttg gaccaagctg agaggtacca tcctgcttcc ctaaaagctt ggcacagtaa 300
 tggggaacca cagacggcac caggggtggg taaaactcaa aaaaaggctc gtttgcaatg 360
 cc 362

<210> 704
 <211> 451
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI100878

<400> 704
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 agtgagtggg gactggtcca ggctggtaga cccaccaggg gatctggagg ccagtacctg 180
 agatggtgtc taagccaagt agtatctagc caggccagaa catggcctag agaggtaagg 240
 gtggggcctg gttgggggct cccggcacct aggggctggc atcaccaggg gcctcccaaa 300
 gctgttgctg gaattccagg cgtgtctgcc gattggactc cagcagctcc tggaggcggg 360
 catggaggtg gtcgttcttc tcctccaggt ggtccagaca agagttgatc tgatccaaca 420
 tggagttgat ggcagcatat ttgcttccc c 451

<210> 705
 <211> 498
 <212> DNA
 <213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI101006

<400> 705
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ccctgtgagg tagggttctt cttgtacagt ccaacctcag acccctgaga cctgccccta 120
gctctcgagc ttagtataag cagaacaagg gactccaact cttgctttca ttgttctaga 180
aaatacaaaa gctttggtcc caatttacac taatcttaaa ttttgggggg ttttcaaacg 240
cccattcccc attgtctttt tttttttttt aagtcacat cctttgggtt tttgagacag 300
ggtctcactc tgtaggccag gtttgcccag gactatacac tctaggctgg cctcaaaactt 360
acagcaatcc tctgcctaa ctgtcctgac tgctgggatt acagggtgat gccacacccg 420
attccacaat tttctcttaa atttgggact gaccactgct gcaaggcctg gggtcagccc 480
ttactcgagt gtgcatcc 498

<210> 706
<211> 537
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI101130

<400> 706
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atttcataca tagtcaaagg gtaaaacatt gctgggaaaa tttatagtct gtttggtaat 120
ttgtttgtcca aataaaaagca atgaatagtg atatatttaa tgccaattat tacaaaactt 180
ttagagaaaa ctcagttatc tctaacatgt tctgctaaga gagagaaaaa aaaacgtatc 240
ttttaagatc catatgattc tgggctaaat tatcagtgct tttctagtaa tctagaaatt 300
tcttcaaaca gcatttcttc tgttggttaa ctgttcttac tgattggctc tcgcagtagg 360
gaatgaggac atacagcact tttcacactg ttcagtaaaa ccatataaat taaagatggg 420
tgctaagctt aatattttat acagaaatgt gtaatatctt atttaattgg actgaatata 480
ttttatgagt acttggttac agtggttaagt cccccaatc tgtgatgttt tgtgaga 537

<210> 707
<211> 565
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI101159

<400> 707
acagcatcca gaatactttt attgccaaaa tcgaggtaca gcttgctcag gacccatagt 60
gggggtccca ccactcaggt gagggacaga tgataggaat gtgcttaaca aggtaagtcc 120
agcgccagaa acggtatggg aaggcagtggt ggtccatcct ccaagtgggt ttgagaccct 180
gacctaaaag ctgatccaag cttatagtca ggtccactgt ccctaaggca ggccgagatt 240
ccccatccct gctgtcacag agactatgtg gcatccctgg gacaaacaaa caaaagcccc 300
tagctgggac tctaagttcc tagctctctt gggggccctt tcaaattctt ggactgtttc 360
cccgcaaacc aaaaccatt cagctggtag caagtgttgg gcagggactc taccacctct 420
caaccctgtg acagcccaag tagatggtag aaaggcccca gagcagggcg caccatgggt 480
gtggaattct caagaagggt gctcatggga agctctaagc aagcatgggt attcccttga 540
gctcgttttc ttcctaggac cttaa 565

<210> 708
<211> 560
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101167

<400> 708

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ggtatatttc atttttttatt gatagtgaca ataaaattac atatagacta attacttgty 60
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tgaactaaac ttttagaaga caattaaaaa taaaaatata ttaaagatat aagtcatgac 180
aggatatcga gatggcttac aagtgggtatt tatacatttg attataacaa tgtatagatt 240
tttacaagaa gctgggacta gggagttcct aagaaatctt agattttgta cagttaatgg 300
ccagattaat aatgtctcaa gtcttaaagt ccttaaaatg ttcttccaga gtccacaaaa 360
gcaagcagaa tggtgtaaaa atattcttag ttgcatatat ctttttaaat aaatttgaga 420
ttattcagta tgccttacat agataccatt aattgagaat cgctgaggtc tccagtgact 480
atcttttcac gttttcacag cttggatctg atcttgaagc cagtcacgc cttcctgcag 540
tccttctcct ttgagggcac                                     560

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<210> 709

<211> 579

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101205

<220>

<221> unsure

<222> (1) .. (579)

<223> n = a or c or g or t

<400> 709

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taaattgtaac aaaaataaat aaggagaatg tattcatata aaataaaaaat aacatagtaa 120
aaggccaaat gtttataatt gaacaaaact gtgtaaacaa acaataatgt aagcagataa 180
tttaataactt tcttagactc ctcatcttgt actctgatgt ggacagactc agtaccaaac 240
ttaactaaag gggacaatca tgattactat gcatgacttt ttcttgaaac ggactgacct 300
tgtttcaatg ttttatttgt tcttcaaag catctcactt ttctttttac atctgttgaa 360
acccttctga agttttactt catgaaaact gtgaatttag ctttacaagg agaataaatc 420
cttttctttt tttttaattt aaagaaaaat atgagatcca ttacacagca gacttatgtt 480
ttacatctta caaaagggtt tgcattttta ttaactgatc cagcgtcaca ggatttctta 540
gatcctaaag tcttgaagta cagctgactt tnccttaaa                                     579

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<210> 710

<211> 349

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101226

<400> 710

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ttaatatatt tatttgaaca cacataaaac atattcaatc tgggttgagc caaattacaa 60
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gagctttgga tcaaaatattt attggaaatc attgaaaat caccctgttg tcaatgaatt 180
gctcaaatga tgcattgact gacaatgtaa ctgatctcaa caccacaggg agacctgat 240
gtgtaagtag agccctctga gagacttagg taggtcaaat agggaagctg ttaacaatat 300
ggcttgccctg tcccaaatgg gagcactgaa gctagctact gacagaagc                                     349

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<210> 711

<211> 473
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101229

<400> 711
 aactctgttg atcacacaat gtcaaact agaaaaacga agccatacat gttgatagag 60
 caaaatatat ttctcaacaa ctcatgaaat ttgtctcaca aagtatggca tagaacagtc 120
 acagtattaa gtattcaagt aaagttgtgt gttaaaatag gtgcacaggg gtaataaaca 180
 ctgggatctg gccttcagag aggacaaccc atgggacccc atttgaaggt tgttacatca 240
 cagaataggc ttgcttacat tgtgcgtctg atctttattc tcctacaccc ctcccccca 300
 gtccctgaaga acaaagatag agaaagaaga atcacttgct acgaggccct gcttcaaggt 360
 ccctcagatg gaaaaacaga cgaactctgg tacttttagtg agcccacta cctgggagac 420
 atgactatca ggcttatgtc atttgagttg ataattactg ccaagaagtc ctg 473

<210> 712
 <211> 374
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101256

<400> 712
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 aaaggaacta attggcagct atgtacagtg ggacacaatt gtgtcatgta cactacaaag 180
 tctttacaaa ataatcatct taggtcaaca gaagatcaag caaccttcaa tgcgtcctg 240
 taagatgggt tctttacacc tcctgctctc ccagcgctct ccttttagtag ggctggtaat 300
 tgttctgggtg attgccaccc cctcgggatg ccttgccata agtgctctgc tgaccgctgt 360
 agtctcctcg tgcc 374

<210> 713
 <211> 464
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101262

<400> 713
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 tgggtgtttt gcctctgtgt atgtccgtat agcataagca ttcagtgcc acggaggctg 120
 gaagaaagca tctgatccac tgggacgagc tataggtggc aaaggaggc actatgtggg 180
 cgctgaggaa gcagatattg aatgagtggt atgggctggt gagatggctc agtgggttaa 240
 ggtgcttgca gccaaagggg cctggaggt aaaagaatag aaccaattcc tgtaaggtgt 300
 cctctgacct tcacacacat gctgtgacat gttgacacac aatacccata agcataaaag 360
 aagagctgtt cagggttagg gagacagctt agttattaga aaacttctgg ctacataaga 420
 ctgaggacct gagtttgatc cccattaccc atgtcaaagt ccag 464

<210> 714
 <211> 391
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101362

<400> 714
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 agccattaga tgatcaacaa caagacatca ctgttttgaa atccatttcc agagccaccc 120
 tcaagttagc agcaattgac gtggaagccg ctgcctttct ttccaaacac tctgcctttc 180
 acacacagcg ggagcagcg ggagcagctc cttctcacat gggtttctca cgatttcttg 240
 gtctccttg tgctgcagga cgctggagga cattccatac tactttggtt ctaaggactt 300
 taaagaaagg aaggatgctg tttttctttt tgtccaacat cacgaaggca aaaataaatt 360
 gcaagcagcc tcggttactc agaacagaac t 391

<210> 715

<211> 210

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101443

<400> 715
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 gaggttgaca atgtccacaa caggtgtcag agtgtttaaa aaaaaaccca cagaaataac 120
 actgcaaacc ttttggggag ggcctgaggg aggggactta tctggatcat attgcacact 180
 gccctgacca atccttcocct tttgcccaaa 210

<210> 716

<211> 590

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101500

<400> 716
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 caatgaacga aatgttgaca gacacaagct gttcacaaaa gcaatatgag ccaggccata 120
 tgtccaacta ggtgactgga tgctttgcac tataggaggg acagcagggc catcctgacc 180
 tgacattctg agcaagcgtg gtttagatgt cagcataagt gtctttgagt caggacacct 240
 gtgacatcaa cattacccat cacactgata aagtataaaa ctccatactc cctaacatta 300
 ataaaatagt gtaaaaatat atatcacata tatataaact taactccctt tcttgaaaaa 360
 aaaaacttag tacaaactag tagtaatagc atattattcc tttcaagttt aagttgtaca 420
 ggcttccttt gttggttggc ttggttttagt taagaagtct aaaggaagag ataatttaac 480
 catcccaaga tggccacacc cctaaactgt aaagttcaaa atggtcagta gtatgttggt 540
 gaggaagagc tggttggtc aatgttgtaa ggctattctg tctactgatg 590

<210> 717

<211> 182

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101534

<400> 717
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 acaacaggaa aatactcact gagtgaatgt ccggtccctg atttgtgccc ttcactgcac 180
 tt 182

<210> 718
 <211> 465
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101582

<400> 718
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 ggggtgaaact ccacagcata gctgactgat tgaggggccat ccagaggcgc gctaggatcc 180
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 gattgcatag gctgctgggg gatgggctgc tggaaatcaa aagtcaggat ctgtcgaggc 420
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<210> 719
 <211> 453
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101708

<400> 719
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 gtatacgaag atatgtacag tgtgtactaa ggatcaaact aaggtaatta tatcttttcc 180
 ttgcttactt ataattcctg atttttatag aaacaaaatg atttaataat aagaaaatta 240
 ttttttaaat ataaaataac tgaaacaggt gcagcattgt ttagatcaac atttgaaaat 300
 aaactcaaac tataggcagt gtgttggttc tcagaccttc aattgttttc tccttcagct 360
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 atgagcaggc agtttgaaga ctctctaca agg 453

<210> 720
 <211> 595
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101901

<220>
 <221> unsure
 <222> (1)..(595)
 <223> n = a or c or g or t

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 catatataca aaatcatgca taataaaaaa taaaaactgt atacaccatt catggtcatc 180
 tcttttagtg actggatgtg attacaattc actggagtga ttacagcatc catcactcgc 240
 ctgccctgta aacagtgtct gcttcatctg tcctgtgatt agtgcttcca acagtctgtc 300
 tctgacagac gccttcccaa gcagcttctc cgatttgctc ttatatactg gcatgtagag 360
 aacatttcaa ctgatataat atagagattg ccacagcaga tgcctggctt tagaaaagta 420

tttggagaac tagaaaattc tctacatagg attttctcta atagagaaaa atatgcattg 480
 atggatatgtg aatacgtaat ttcaggagtt agaactgaag aatttaggat ctnccttcc 540
 acctgcagtg aaagaagggtt aaggatctca accccataaa acgtgattag taatc 595

<210> 721
 <211> 484
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101921

<220>
 <221> unsure
 <222> (1)..(484)
 <223> n = a or c or g or t

<400> 721
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 gaatcaggca aatcacgaat gcataaatac cacagcacag ccagacttgg ggggtgggggtg 180
 gggtcacagg ccacagggga ccatgcttca aaggcagtcagg gaggcattaa atacaggggc 240
 taaacgcttag agtccatctc accgtacaca taactcatac attaaaagta aggagaccac 300
 ggtatgtacg tgcaagcagc ttgggtcaga gaaaatgaac aaggggaggtg gagccatgca 360
 caggaagggc ttgcctgtct actctccatc ttcttcatcc ccacaaagtc acctgggac 420
 atagaatgaa tcanctggtc tcggtaggat actgaaaagt cgtgtctggt gtccttaagg 480
 gcct 484

<210> 722
 <211> 551
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102009

<400> 722
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 aatttagcaa tgacattcat cacaagcctc aacgctctag tctaaaaggg ctcttcagaa 120
 tccacttcac aaagctttgc acagaacagt ttaagcacca gtaagactgt tgtagcagt 180
 gctcttatcc cttcactgtt acagtcaaac atgcagggtc aacctatgtg tctgaccctg 240
 taaaatggat gccacactca gccttgtggt acaaagtta taaacacaat ataccaatac 300
 aaagttgaag ccattaaaaa gagcttaata acaactacca ggagacgatt aaatctggga 360
 agttgagggg atccgaagag gatttggaag ggacacgcag acgtacatta cggtaaatgt 420
 tttactggga agaggtgcga gggaaacttc tttgcgcttt ggaaagactc acttgctccg 480
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 ctgggcattg c 551

<210> 723
 <211> 384
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102017

<400> 723
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agtaattgac tgcagtatga gcagctgcta gcagtatagg ctggatataa cagtaacaat 120
cacattaagt caagcttgat ttacaccagt ttaaaacttg tggcaattga gttcatttgc 180
gaccacaaaa aagtacacaa agaacgttat cctccaaccg ggcacaataa aaccttcact 240
aacattctgg ccccgctctgg gggcctatcc cagaggcccc aactccagaa attaagtaac 300
tgtcatataa tacatcccac ggctaaaggt ttgttacatg gagattatgc atgtgcctcc 360
ttttccccc gaaaatttat ttaa 384

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<210> 724
<211> 625
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AI102045

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<400> 724
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aagcaagggtg gtcaaggatc ccatagccca gtcacagtgg gaagcagacc cctcccccttc 180
aaatggcatc ttggaaatag gcagatctgg agtaatcaca ggtaaggaga atcaccagct 240
tgcagagcag agcagagcag ttctgggagc tgaccctgca cttaaaggatg gggcagctgg 300
ccagacctgt gacctcttct cccctgaata tattttaacta atgatgtttt ctagaaagag 360
ggactgggga tgtagcttag ctgggagtgt gtgcttaaca cacacgatgc cctgggttgt 420
tcccagcacc tcctaaagca gcaaggatgta cacacctgta accccagcac tcaggagggtc 480
agttcaagat cattcctggc taaatgtgag ttgaggcccc tgcttggaat tcatgaaacc 540
ctgtctaggg gtagaggtaa gggagaaggc taagctattt taaaaaagga actgaagagt 600
agccccaat ggaaatggct cacac 625

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<210> 725
<211> 615
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AI102093

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<220>
<221> unsure
<222> (1)..(615)
<223> n = a or c or g or t

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<400> 725
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tcaaggagcc cgggcccccg ctggcctcta cccaggcgcg gagcccccg cctctccag 180
ctggctgctg cggcgggcaag ggccgggggt ttgttactcc ggccggggcg gccccgggc 240
agcaggaaga gagctggggc gggtcgggtc ccttgccctg tccgcccccg gctaccaaac 300
aagccggcat cggcggggag ccagtcgcag ccggcgctgg ctgcagcccc cggcccaagt 360
atcaggcggt gctgcccatt cagacgggct ctctcgtggc ggcgccaaa gagcctacgc 420
cctgggctgg ggacaagggt ggggcggctc ccccagctgc caccgcctcg gaccggcg 480
gacccccacc actacctctg cccgggccgc caccctcgc gccaccgcc actgccggga 540
ccctggcggc cagtgagggc agatggaaga gtataaggaa gagccctctc ggggggtggcg 600
gcngctcggg agcct 615

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<210> 726
<211> 485
<212> DNA
<213> Rattus norvegicus

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<220>

<223> Genbank Accession No. AI102190

<400> 726

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cagttcatat aatttattgc agtttagcaca cagtttaaaa attcaccaac acaccaatag 60
tacaaaacta accagtattg taagttattc cccctcagga aataaaacat actatgattg 120
tcaaagctag atgtcagtct aagattttaca acaaaggaag aatgtgaaac taaggaaaag 180
aaaaagcaat cactcacaat gaccacaaaa aaaaaaaaaa aatccaaaga gtccggttctt 240
tcacagacat tgattgtctt ctctaaatta ataaagatta ttttaacata aactgtatta 300
aaaaaaaaacc cagaaactct tcaagtaact aaagataatg ctccaaggcc attttcacag 360
ctttttttgt ttgcttggtt gcttgcttta aatgccatta cagccaaatt aacatacatt 420
tgaccaaata tttccaaaac agtcacagca cacacaatga gttttccatt cagtattctta 480
agcac 485
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<210> 727

<211> 552

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102258

<400> 727

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ctccattata aacgttttct ttttaattta gaatactgat taacacagga aacattttaat 60
tcatgggact gcatgtggtc accagttaca ctgtgacatt gttagtgtcc tcaaccactt 120
attggcactg ttgacgggta ctgtaaacaa gatcacttgg tttgcatgag tctgcatgag 180
tcggaagctg tgggttttcta cagtgaactg atatatatgc atacagagat agggacagat 240
ctattagtac atggatgtgc acagttttgc atgggttactg agcatcagta aaaattataa 300
aaaaaaccac ccatttataa taaaaaggga gcatatgcta agacttgcta gtactgggcc 360
tcgttttctg cacaactggc aagattggct aaagctgggt actaaactct actgcactaa 420
tgcattgatg gtgttcaccc agaccttcgc aacagatgcc ctgattttgt ggttctgccc 480
taggcagaag cctgcccact aggttctctg tgtttcatca accttctcta agttctacaa 540
tcttgaattt tg 552
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<210> 728

<211> 625

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102560

<400> 728

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taaggtaatg gttacttacg taagttttta ccttatattg cttggccatt tttttttaca 120
tataaattat tgcttcctac tttgataaat acacagcaca gtcataatac cagaggcaga 180
gaacatgaac tatgagaaaa aaaaatcaaa cactgtcaat ggcagtctgg taagtcaacg 240
aatgtttcat atttaccagc tcttataatg gtggaaaact acgagggtga gtccttgaga 300
agttaggtag atgcccggcc tgtgggcttt ctatcttcta attgttatcc caagctgaca 360
gcatcatggc agtcctaagc aatgagacgt ccaaaggcaa gagtccttgc ttctgggtcat 420
tgatttcacg ctggtgttta ataacagcgt aatacgaata caaataaata ggctatgcaa 480
ataaatattc ctctgctaaa aatgcttact tagtatatac agctttgctt tatacagtag 540
tacatttctt ccgacttttt ggcaattttc aaaatggggt ttccctagag caaaacgggc 600
ccactcagta atgagtgggc tgaaa 625
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<210> 729

<211> 405

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI102562

<400> 729
ggctttttatt attcacatgc tcggtagaaa acgggggttta gttaaactggg tggaggtgta 60
cggcaagact ctgagttggt ccggaaaatta tttacacctg agggcagcag cactgttcgt 120
cacttcaggc acagcacgtg cacttgctcg aggcaccttt gcaaacacag ccctgggcac 180
atttggagca gcccacgggg cagcaggagc agcagctctt cttgcaggag gtgcatttgc 240
agtttttgca gccgcaggag ctggaccagg tgcaggagcc gccggtggag caggaccagt 300
tgggggccat tccgagatct ggtgaatctg gagcaacggg gtaagctaca agaaggcagt 360
ccctcgtgcc gaattcttgg cctctagggc caaattccct atagg 405

<210> 730
<211> 564
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI102576

<400> 730
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gaaggggaaa cttaaaggct actaaggag gtttagggga tttcaactta ggacaatatc 120
tatgagcaaa aagcaatcac acctgcttcc cggatttgca ttaacaaaac accatgtgaa 180
gtcggggaaa gacacgctgg tgcacctgc cctgcctccc acctgcttaa gatggtgcta 240
ggatcctctg agccgacccc tgggcatgtt agtcccctgg cccaggacag ttctcaactc 300
tgacaagctg ctgtgcagggt gaagaggtgc tgtccccttg cagtcagttc actgctgaca 360
ggcttaagga catggcaagg aaaggacat cactcttttc tgggtccctga ttggtctatg 420
ccacatgcca tggctcctgt cctgggcata tgcccctctg gctctcttgg cctcataagg 480
ggtacttcaa tgagtctggg caccaagtac aggataaaat tattcctatc ttttaaaaaa 540
aatggccaaa aaggctcttt tggg 564

<210> 731
<211> 478
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI102578

<400> 731
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aaaatcaaca ctataaaaat aattcacaat attaattgtca tcgacaagtt aacatctaca 120
agcatacaaa ggctgtgtgc attgcttgcc ctggccagct cggtaaagca agtacctggg 180
aaaggggaca gaggagagac ttcagatccc agcctcgaac catgaggaag caagcctggg 240
tcagggctga gcagggtctt catggctgga ggggaatggga taagtgaggc tttgcccctg 300
gccctaggga gctggatggg gctactcagg ccgttaaaag gcagactaca gtgtaggaag 360
gcaaaggctg ctctacccaa gacaaataat cactggcaag aaatctctca catgctcaca 420
cgtcaactcc ctttagtggg gtctggaccc cactggacca acatctgtcc aatcatgg 478

<210> 732
<211> 547
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI102634

<400> 732
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ttaagacttg caccgcgtga gttttctcaa gataattcat ctttatgcc a tggtatttag 120
acattgtccc agaatagctt gaggtataat tcattcagga actatccttt gcaaaggaga 180
tgatcagcat ttcaatagta tgtcttcctg gaagggtaga ctctgctata tcttccttgt 240
ctgcatcaaa agactccaga ggaatgtgca cacacctcat atcccacttg tagagcaagc 300
cttccagtga ccagtcagca cttctgacct ggtatgtaga ccagaattga actttgggat 360
tcttctgcat cagaaagtat actgtggcta aaatgctttc aaagtcttct ggttcaaaga 420
aaacatcaga tccaagaatg atgtcttgtg gtggcaatga caaagtgtcc tttgatatgt 480
ggccccacgt cagtcctaca atttgcacct gtggcaagtt attcattctg gcaactttgc 540
caacaaa 547

<210> 733
<211> 581
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI102739

<400> 733
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attcagcaaa ataaatgtaa caagttcatt taaataaggt agattctaga ctctgttaact 120
ttttttccct agctacctgc ttttctgccc cttggaatct gtcgctgcta aacgaggggtg 180
ttttccaagg taacgcagct gtaagagaag gaactgtttt atatatctat atttcaaata 240
tataaaaatt gaatgactca aatacacccg tgttctcctc caaccaccag agtgttaagt 300
gaagcggagg aaagaggcac aggaagggtg actgaggtgt ctcccctgcc tgcccgttcc 360
tttaacttct caacagaagc caggcagctc tggaatgctc tgaaacggat ggtggtacat 420
acggattgga aagtggcggg caagggcaaa caaaaactgc tcccacatca tctttcatta 480
aaatccaaag agaaacgtaa gccacacccc tctcccgccc aagccatcgc tttacacaga 540
actgcattta gcttctctgtt attttgtttc tttagttata t 581

<210> 734
<211> 587
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI102750

<400> 734
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tttttctcac cccccaatac acctcacaag gaggtatgag gactgcctct caatggaagc 120
ggccctggcc tctgcccccg ccagctgctg gagctggagc atccacagtg gagcgggggt 180
tcttgatagt ctcatccaca gacacaatca ggcacgcagc ctccagaagct gctgtcagag 240
cgttgatgag caccatggct ggctcccaca caaatgcctg gaagttgtca gcaatgtcct 300
cgttgttgat gtccacccca taccacatgc cccctgtgct atgtcgagcc cgcagtttgt 360
tgaggatggt tgtggcatca aagccagcgt tgctcacacag ctgtcgtgga ataactctca 420
gggccttgag atatgccccg atcaacattt aagagggcaa tcttgggggt cttatacttc 480
ttgggctgca tttcaaacc agcataagag aacgtcttct tgaacgcaac accagccact 540
agtcgagact cctccagggc tccaccctgc accttcttcc tcgtgcc 587

<210> 735
<211> 700
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102753

<400> 735

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ttataccaac cttttcctat taatgcagtt tctgattaga actaaacatg tctctttctc 180
aatttaattt aggatgaagt aatagaactt ttatgatcaa cttcataaac tgtctttaag 240
gagaaaacga atttttaagt ggggtgtcacc atatttacca gtgaactggc tgcattggtg 300
ccttgtctcc ttgaagtctg gctatcatta gaactaacia gatcaagtcc atgaggccct 360
cggggaactc aatggctgtg acatccaagg ggagggcaca taccatacat cacaatgatg 420
aaagttaatg ctcttaccct ctgagtccat gtaaaaaaac ttattactct cattcaaact 480
aactgaagtc aaacagttaa aaagtcagaa tgaagaataa aactattttc ttttcacaga 540
gaggaggggac actccttcag ctccatttaa agtgaattct gtgctgagtc cctgctcctt 600
cagaacagta aactgaaagt cagttattgc tagcaaagct ccagtggctc ctttcctacc 660
tcaaagatgt tccacacaaa aaggctattg gtttgacttg 700
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<210> 736

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102812

<400> 736

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acatatgcac tgagaagaaa tctcatctgt gtcacataag gaggtgagtg accgggtacca 120
agaaggaacc ccgtatctct aggcaactgcc aaggaatagt tcaagcctat gcagatacag 180
aagagaaaagc ttccaattta gtccaaaagga aattttactt ttcatccata ttaatgtgga 240
aatagatgct tcaggaaatt taagttttca caaatacaca caccacaggg ccaggtagct 300
ggattctctt ttgtaaagac cacagatcat gttaattagt tctaccctcc tcagtggatg 360
gtcaactcac ctccctatat aaacacacat gagaatttgc accaaatctc aacagccagg 420
caaaactcta gaactcaaaa attcttgaag cttatacttt aaaagtattt ttttaaagtg 480
acaggtaaac aaggaggcac ttgaattcaa aaaacaaaaa tcaataaaaag c 531
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<210> 737

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102820

<400> 737

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ggggaggaca cacatccttc catgccctaa cccctgccc gcccacaaact tctacctcac 180
caccaaaaagt ttggccaata ggctgaagcc ccacaaaagga atacttgaga agtgacatgg 240
cacagagaca tctccacaga ctctgggtgtg ccatccctaa gtgacaactg tatcgcttca 300
gaacttaacc cccaaccctt tttctaaaca ttttctctgt tgggggtggg aagaacttca 360
gttaccatc aactaagaaa gtaaagcagc cacatgtctc ttcccacatg cactgtccc 420
agcttcttcc tctgaggagt gtcttgcttc aactcttcat gttatccctt tagtgtgaaa 480
cctactacac ccacaccatt tacaaggcgc accaggtagg catgggggtca gggcaggcat 540
agctcctaca tacaggaaag cttgc 565
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<210> 738
 <211> 489
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102868

<400> 738
 agatgactca ggactttaat gttcttcata tcgtcaatcg aaaacactaa cacatgaaca 60
 accagaaaag acctcagcaa agatctggaa tgtacagatt gccctgggta aactacaaaa 120
 acagccatgc gatcacagtt tgggggtggg ggtgtaactg agttttgttt aacggtctaa 180
 ccgaaaagca aagaaacaac cattttcttct acttgtggca agaaaagtta atcatggaac 240
 tcctagatcc ttctcatgaa gcagctttaa aagaaatcgc ttctccagag cttcatcccc 300
 tttgctgtta ccaatgcgaa acggaatggt catcctgctt ctattctggc gctccaccgg 360
 acacacataa aatccttgag aattatcaat aatctcataa atcatttggg atttgacgga 420
 gctgagcttc tccatggctg cggaccacc attgttactg atccattcca ggatcatgcc 480
 catgacgta 489

<210> 739
 <211> 562
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102871

<400> 739
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 caggaagagt cctcccaag gtgctctcac agacatccag actcactcac acagacattc 120
 ataccgctcg gcccactca ctcacaccag tgacatgtga gggtcagacc cctaaaattt 180
 aggcagctgt tggggaagaa ctgttggttt tcaatcttct ttagaaaaga aaaaagcaca 240
 gggatgcact tggccatcac gatgctagcg atgtttgtgc actaactcat ggcagttaac 300
 actgagaact cctcctccac tccacacaca gtgacatcag cctcagtctc agtgctgctt 360
 gtactgactt ctcaattcac aggggctttc ccaaaaagta attcaagttt atggaagtga 420
 aataaggcac aattaatatt gttttgacct aacggaagga aaggaaagaa ataaaactgg 480
 tttcaaaata tcttagctgg gaactgttga ctttaattcta ctggaaatcc cttcttcaaa 540
 tcttataaag acatttttcc ct 562

<210> 740
 <211> 585
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102905

<400> 740
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 agtgattaag atgctggatg aatagccaaa gaatattatc aaataacaaa atctcaacaa 120
 caatttatca aatgaaactt tactgagaca taagagaata tgtgttaaga gttaacatgg 180
 ctaaaaatga gacatcacag aaatagtaag tccataaacc tagaacaggc actcaataac 240
 agaagtgatt aggtgagcac acactacaaa ccggtatttg aagcagcttc tagaccaaac 300
 acattggcag gaccagcagc gaggcaggctc attcaaccaa ggcatctggg aatagggagg 360
 agatctcagc caccttctgc ttctactccc ttgtgacaaa gggggagggg gaggctcaga 420
 gagctgatgt tcctggctct aagtcgcctg gccaggact gacattgacc accggaaaagt 480
 gctctattcg atttaacttg acatattttt cctactgaca ggcatacgat gaaagaaaac 540
 aacaagcttt atagcatagt tcaggatgac atttatttcg ttgga 585

<210> 741
 <211> 573
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102943

<400> 741
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 gggccaatcc atcccatga cccatcgga cagagggagg tggcacatgc cctgtgtact 120
 tcttcagtgg caggtggcac tggcctcaga cccgtaacca gctgccaggt taagagtagt 180
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 gagccagggc tcagcaggtg ctagagggat gcaagcagct ggtctggact cccagaaatg 360
 tatctcaggt agggaaactg aggctggggg ggcagtgtag aagggtggga gacctcagaa 420
 ctgcacacac tccagaccag ggccaactcc tgctcagtca ccatcactgg gactgagcga 480
 agggacgctt gcaggaaggg ccagaaacctc acgtggctca aatccagctg ggggaccagg 540
 tgggttcaat gggggcagaa gtgacaacag gcg 573

<210> 742
 <211> 394
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI103071

<400> 742
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 ggattcttta gccattacaa atggaactga tggtgacaga ccttaagggc tcccagtaac 180
 ctgctgtcct gcaaaaaggaa acaatgccca tccactccat tgaaacagaa ggcataatta 240
 tcgaacagtg cctagaaaac agagggggacc gagaaaagta cagtgttgcc tgctaggaaa 300
 ttgcagttgc ttgagaataa taataaaact gagattcact gtcagaacaa agaccttcac 360
 tgcacggaac tgaaaaaaaa aaaaccctcg tgcc 394

<210> 743
 <211> 489
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI103078

<400> 743
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 ggctctgttg ggtcctggcc ctctcggtgc tttaccactt agaacctaga atctaggccc 180
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 taatatatac agtagcttca tagctcagat gcctatgtcc ctttgacagc ctctgagtc 360
 ccagggtagt atgactagac aaggggccagt cagaggttgc ctctgacaca cctgggggca 420
 gtggggcagt gtctcaccac ctgttccctt tctccagcgg ttccagtttg tggaaatccc 480
 cctcgtgcc 489

<210> 744

<211> 432
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI103097

<400> 744
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 ttaaacttac agagctgcca agctggatat tgatgcggga tttcaccccc agtgggtattg 120
 caggagcctt tcggagaggc tatgaccggt attacaacaa gtacatcaac gttcggaaaag 180
 gcagcatctc agggattaac atggtgctgg cagcctacgt ggttttcagc tactgcattt 240
 cttacaagga actcaaacac gaacggtgac gcaggtagca ctgaagaggg gtcactgtgg 300
 agaacactgc atggccgagt gtaaccgcct ggcccgcctc gatctgctta accttcacac 360
 cccaaccaag aactagggtc caataaaagg tgacggggact gggttcacgtg aaaaataaga 420
 aaaaaaacct tt 432

<210> 745
 <211> 586
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI103101

<220>
 <221> unsure
 <222> (1) .. (586)
 <223> n = a or c or g or t

<400> 745
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 acctctggcg tatgcgtttc cagcgttgca tgttgcgata gataagtgtg gaaggagaag 180
 gttcaggctc ggagggttca tcatcagtgg taccctgggt ctgaggctgc agtggggatg 240
 gaattcggga tctacaggca tctccaagt ctgcaggggc cgtgggtgga ggcagcttgt 300
 acacatcacg atttttgctg ctgatgacct ctgagccctc tccatcctct ggcagagggg 360
 gcagtggtag gccaggtag cgctcgcgct ctcgcactgt agggctgtta cgcattccagg 420
 cgcggcagat ggggtacaac ggtgtgttct cactgaactg ggccaagtcc aactccgggt 480
 caaacagctt gatcacatac gtattggatc tctgaggacc cccctcagca agcccatcgt 540
 ccatctncct tctcttcttc ctccgctggt gagggaagcg ggccga 586

<210> 746
 <211> 479
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI103159

<400> 746
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 gtgggacaca gggcagctag aatccagaat gtggcggttct ttgtgaaagc gactgaaaga 180
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 agcaggcatt gaagaagagc gtattgaaca gggaccagac cacatggtca ggcacagaaa 420

099300-0340

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<211> 498

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<213> Rattus norvegicus

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tcccacacac ttgccctggt aggetgtctc taggtctctc gaggcgataa ggggttcctt 420
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<210> 748

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI103246

<400> 748

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<210> 749

<211> 405

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI103548

<400> 749

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<211> 514
 <212> DNA
 <213> Rattus norvegicus

<220>
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 ctatgtagac cgaccttgaa ctaacatctg cctgttgagt gctgggatcc catggtgggc 360
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 gtgtttatct gcatccatta agaagttggg ggtg 514

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 <211> 532
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<220>
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 ccctcttact gcgcaaacac tgaggcaaag tagctttata taaaaatact atcttatttc 480
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 <212> DNA
 <213> Rattus norvegicus

<220>
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 ctaactgtac tgtattttcc caaaccatct ggggagtttc gatgggattg ttccagcgtg 240
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 agggcctgat accttggtca gccacaaac actcttggtg ctacagcaac cagtttgcaa 420
 acagaaaacga tacaggataa accaaggctc tgtgataaca tcagggctaa gtatcccttt 480
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<210> 753

<211> 573
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 <213> *Rattus norvegicus*

<220>
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 aatccaaaaa gacataattc attctgagtc cagatcagag tcagggtcac ccacggagac 180
 ctctgcagtg ccagggtgtc caagccaagt tcccccggtg aggaaaaccc aacagactac 240
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 taaggtaata aactaacctt caatataaaa actcccaagt aatcaaaagc tgagggagac 420
 aaagaatcac aagttaagga ctgaggtgcc atgactgtca tttcagttct tagcaatgga 480
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 <211> 398
 <212> DNA
 <213> *Rattus norvegicus*

<220>
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 gtcttgctag ccaagaagaa catagctttt taaatgccaa tgaatcacat tttccacaag 180
 tattaagact ttaatgtctc cgaataacaa ctttttaaaa tgcacttctt atttattttt 240
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<210> 756

<211> 590
 <212> DNA
 <213> *Rattus norvegicus*

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 aaaaataaat accgttcaat agactgcctg ccatccagcc tgaacttaca gggcacagcg 420
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 <213> *Rattus norvegicus*

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<210> 758
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 <212> DNA
 <213> *Rattus norvegicus*

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 catttcttct actgtccac tcagcatagc aattcagcaa atgatcaaaa gggtttaca 180
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<220>
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<210> 761
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 <212> DNA
 <213> *Rattus norvegicus*

<220>
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<210> 762
 <211> 485
 <212> DNA
 <213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI104683

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<210> 763

<211> 373

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104798

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<210> 764

<211> 422

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104897

<400> 764

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<210> 765

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104908

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<210> 766
<211> 503
<212> DNA
<213> *Rattus norvegicus*

<220>
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<210> 767
<211> 703
<212> DNA
<213> *Rattus norvegicus*

<220>
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<210> 768
<211> 575
<212> DNA
<213> *Rattus norvegicus*

<220>
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aaagttaaaa ccgccttcaa gattactttt tatatttaac tgtacaatac aggtattgac 240
caattttaca gtattttacat aaactaaca caatttatta aacagcatag cttgatctga 300
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<210> 769
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<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI105131

<400> 769
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cagggcagca gcccttccag gaagccaatg tggccacccc gagctgtgat gagcagggcc 240
acgtagggag acttctgggc agcctgcaga gggaggccct gcactgggga gaagggatcg 300
tctgctgcat tgaggcagag gacaggggtg cagatggcat ccaccttggg tctcgggcct 360
gaggcatggg aataagccgc acagtcttta taccacaaag ccacagatgt gtacgctca 420
tccagctggc ggattgtgcg ggccctttatc gcaaagtcta catccaacac cttttcaatt 480
gactttctgt tcctggccac aagccggcag agtccagcag tgaggggctg gttgaagagc 540
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<210> 770
<211> 570
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI105145

<400> 770
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tctgaaacct caccataccc atacttagaa acacagtatg aaatacactc tggaaaagat 180
tttgccatct ctggcaactc agtcagggtg aaatatcttt gctgtgaaca ctgaaaatac 240
gctaaagatg gtccttgggt attctggact gcagtccagt atctaagtga aaactagaac 300
aaccatgtaa aattttacgag tgcagagact tgcactggaa agcccaaacc tataaactcc 360
aactgtcacc aggacttttg cagtgtcact tctactgtca tgtacacaag ccaagtagag 420
accactgctc atatcttaac cataaacatt tcttcttaaa acaatcttac agtctgattt 480
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<210> 771
<211> 641
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI105167

<400> 771

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gtaacgaagc tcatgagcca gtgctggccc aagaggctct tcccaaagt ccaccagaaa 300
gttgggggttc aacttcagcc ctccatttgc tgtatctaca tcaatttgca gcatcacaga 360
gccttcccta atgagattag ggtaaaactg cttgtcccag gcgctgtaca gtgatgtagt 420
gacgtaaaga cgcttcccat ctaagctgag ctggatcatc tgaggacctc caggaactcg 480
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cttcgggtta gagatgtcat actgccaat gtccccgtgc a 641
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<210> 772

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI105184

<400> 772

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ctgatgggtt gcaattcagt gatgtgaaaa ataaagactc tttcagaaag tggcatttgg 180
gtccctaact gtaggaagga actgcttagg caggtggaag agaaagcctt tggcctctgc 240
tgatttgtat accaatggag acaactgttg tataagggtt tttgtttgtg tctgaggcat 300
gaaccagggg catcacacat acgagatgac acccctagcc cttctattac atttcaagct 360
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gtgtgtctgc acttcatgtg tacctgggtg cctcagcacc cagaagagga tgctgattct 480
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<210> 773

<211> 496

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI105188

<400> 773

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aactcagata tgtacctgcc tctgcctccc aagtgtctgg attagaggca tgcaccacac 180
cactgcctct aattttaaaaa tttgtgtttt agttgtcaat gaacaaagaa catatatctg 240
attcaccagg aaaccaggaa ggaaggcctt taaatcaaac tagaaaactg ccattgttgg 300
tgggacgaat gtgtatgacc agagctgtgg cctgcccatt tctgaacagt gttgctgagg 360
tttacgggtt tctccggaac ttcttggaac aacagggtcc ctggctacca tcggaaaggc 420
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<210> 774

<211> 603

<212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI105196

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 caagctcgcc gagtgggcac agggacactc gctccaaaag gagctcaggt ggaagcgctt 180
 tctttaatct tccacagtgg cccttccctg ttcctcaccg ggcttatgac tggtaagaaa 240
 acccacaacc atcacttttg ggcaacagca tctcactata tgggaataag aaacatgtct 300
 aggaatgaaa gcacaaagct caatgatcca catatccac aacaatcatt acatctgcag 360
 caacgtataa caggagtatt ggatagttca aaaattcttg taaaaggggc caaagaacac 420
 aaaatctgtt taaaggtaatt ttctgtaatt aaatgagaaa aattattttt tccatattac 480
 aaatgccttt acactataag acctagaggg gttaaaaccc ttcaaactctg ggctctcctt 540
 tctcagtaaa atgtttggca caacccttga gctgctgttg aaatcaacag ctgatagggt 600
 tta 603

<210> 775
 <211> 572
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI105205

<400> 775
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 tcatgaatta ttcttagcaa attacacttt ttttttctta aagcattcac cattacaata 180
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 aaacccggca aaacaagaaa ccccaaacgt acccccaaac ataaagcaca ttcacacttg 300
 aggatcaaca ccaaccgggt cttcagtga acactgtaaa actctggata cgaggaataa 360
 ccaaggagtg gagcacctgc cgggtgtgtc agactttaga gcaagcattt gaagaaatgg 420
 cgttttaacc ctaagctcct gacctgcctc tgaaacagag cactggaatg ctcaatgcgt 480
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 acccagaaag gttacacttg gctgggtgcc cc 572

<210> 776
 <211> 504
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI105243

<400> 776
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 gagtttccac gtgacctaaagg ggcctacact gggctgcaca ggaaaacgag aagtctgagc 180
 gtcacacgct gtggttaagta tctgatggca aggtctcctt ctgtggaggc cacttcccat 240
 gagcactcac gccgggtgtgt cacgcctcat cccatccact cgctgtgaag ccttcaacctc 300
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 ttctgtgtgg tactcctgag cttaaatacca gagctctgtg gggccctgac caccagcat 420
 taaggcaatg ggaatgagac cagactgaaa ccaatactac tctccgaaac ccagagtagc 480
 tgcctagctg acagcactgc cctt 504

<210> 777
 <211> 649
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI105417

<400> 777
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 ctacgtaaat gccacaaatg cacaataccg tttccttgct ctattttacat agctgatata 180
 tctagtcaaa caaaaagatt ccaaagaaat aacctcgaaa cgcctggaaa aaaattattg 240
 cttttctttt tctaagtcag gggggtgagg ctgcagaaag gaagagtctt ggtaggtcaa 300
 ttacagtttt gtgattgctc ccgctaccgt gactgcacat ccaccagggt ccagtcacga 360
 gaggacagcc tctcacactc ttggtagcat ccgctcagcc tacaacactg aagaagaaaag 420
 ccacactcaa gacacaagga aaacaagtca gtccagtcta gagaagaaca ttccgggaaa 480
 cagagtacca acaccttctt agaacatgga aattaaaaac aactccgtca gagctacctc 540
 gccaaaggagc atgttgaaag tccaaaattg caccattcat cagtgtctca agccctgtgg 600
 cagcgtctca gtcacttacc acaaggaaac aatgagtttc aaactactt 649

<210> 778
 <211> 588
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI105444

<400> 778
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 ctaccagcag gggaccacga aaagaagccc tttcttctgc tgctgtgagc aaggctggaa 180
 aaagagggct cattttttct aggggaagta gccaggatca gaaatactga gatgtgggct 240
 ccccaaattc cagcggatca acaaatgaat agaattttca tctctccaaa aatccgtcac 300
 tggtggggcg ggggcgtccc agtcagggga cgatgggtgc gacatggctg ggcctgggtc 360
 aggaactccc agtcccagtg ggctctggcc gctctgcaca cgtgaacgga tacagagggg 420
 gcttctacac ggtgcgatca acatttcctt tataaacgtg agtggattct ccaggcaaac 480
 tatgcactat ttcattggtg gaaagaatca aaggaagtta aaatcagagt ggagttaaaa 540
 ctgtgctaaa ttacagtagt gcttattagt aactagattg caaaagggt 588

<210> 779
 <211> 380
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI111344

<400> 779
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 tgctgcagtc atttacactg gttagagagc atctaccagg tcatcgtccg tccactcctc 180
 ctcttcctgt ttgggtttct ttgatacata gtcacgtctc tcgtagcctt tcctcttctt 240
 tgtaaccata ttaagtgcaa ggtcagaaga atgacatcgc tccaacttct gtttcagaat 300
 agcaacttct tcagatctgg gtggctcata cttttttact agattttctca tgcttttcat 360
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<210> 780
 <211> 448
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI111401

<220>
 <221> unsure
 <222> (1)..(448)
 <223> n = a or c or g or t

<400> 780
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 ctgttgctgc ctttagagtg gctacctatt ggcaacaagc gccctcagca gagcactgat 180
 gagtcctcag agctcgtcgg acgtgatgtt caccttgggt aggttacatt ctttactagt 240
 ttgacagctc tgaagaatgt cctggtagtg gttcttcaga tcctcataca aggcaacagt 300
 tttctgcgag tgagctaagg gtaacacctt ttcattcagc agcatttgta tctggaattt 360
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 tggtagcatg tgaccacttc ggaactcc 448

<210> 781
 <211> 413
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI111413

<400> 781
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 tgacgatttc cagttaaaac cgagtctggg tggagggtat ctggaaaaca cgaaagatgt 180
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 caccacacgg ggccccagct gataaataaa cagcgccaca cacacacaca cacacataca 360
 cgtgcgctgg aaacgagaga caaactggaa gtctcctgca gtgaaaaaat aat 413

<210> 782
 <211> 465
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI111558

<400> 782
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 agagggtgcc gagagagagc tgctctcttc taaacagggt gcctgctcta ccacagacaa 180
 ggcttgagcag ttgatgtgca acaggatatc accaaatacc aatcatccag ttttaaagaa 240
 tcagcgtcag aatcaactct tgctttttta catggtgttc cagaagtctc tctacttggg 300
 ctacagaagc aaagccatag tgttacacaa tacttatttc tttaaaaaaa aaaaaatata 360
 tttatttatg cccatgaatg tcaaactcaa gtttcaatta aatatattta tatacaatta 420
 ctttgagcac cttgctgcac aatttaaaaa aaacgcctcg tgccg 465

<210> 783
 <211> 478
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI111559

<400> 783
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 agtgcattgca aaaggagtga agcctttttc tcttcatcat tttttattgt aagaaaatac 180
 acagtttgaa aggatgaata atgcagtatt tatgaccaca gatagggagc gtgggtaggg 240
 gaaggagaaa taaacagatg attggacaga gaagacattg aactccagag actgaagcgg 300
 gaggtgggcg tggggggcgg gaggaacagg aggaggaagt aaaaaaattt tgatcagaga 360
 aacagttaaa atacaatatg aaaataagca attcctctcc ttagattccc tctatacaca 420
 aaatacatga tttgccaaag cccaattttg tgctactggg attcctctcg gccgaatt 478

<210> 784
 <211> 504
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI112012

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 tgagatagag ttgatgaagc atggccttta ggtcaggact agctgggttc aggcacatct 180
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 cagtgcctc cccctcccc ttcagacaca atgtgccac cctattaaca gtataaaaaac 300
 cacaatacag atgtgaagaa atactgtctt cccatccctt cactaaaaatg ccaattaact 360
 acgtcccta aaccatgata tacattttac aataatccgt agaaaacaac agctaccagt 420
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 gagtgaagac ttagagcatc catg 504

<210> 785
 <211> 505
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI112086

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 agtaagaaaa taaaaagcac gcctttcatt ctgtaaaaca cttacgcgta ctactaatta 180
 gaggtaatgt ttttttttaa caagccattt tacaagttat tttttttttg aattttcagt 240
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 tggagtatca gggcaccat ataccatg gaaatcaaaa ccaaaagaga aaaaaaatgg 420
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 aagaaaaaaa ctgtgtgtgc tacta 505

<210> 786
 <211> 523

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI112107

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ctgatgccca caccaatagg atatatcat gtaacagaat actactctct gaagaaaact 180
gactcaagta acaacacaga tgcttttcac agcatgctga gtgaaatcac acccaataa 240
aaaccatact gactgatttc gtctaataca cagcagacag cagtggctta gtgacgattg 300
atggatgggc cctactcaag ggacctgagg cgacttggat gatggaaatg ttctctatct 360
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atgggtgggt tcattagaac tcatcactgt gcttgaagag gaaacagggc cactaagcct 480
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<210> 787
<211> 348
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI112161

<400> 787
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atcctggggg tggggggaat ctgtctcccc accccgggct cctcagatat aaagttttgg 180
caggttattg ttattatcta ggtttggccc accatgtcca ctttctgtag tggctgggtat 240
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<210> 788
<211> 326
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI112194

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ccagactgag attcctcctg gggatttttt acttctgttc tgtgccacat tcctgggtcc 180
ttggacatct gctcgtctcc agaattgtacc tgccataaca tagtggcagg aagggggaac 240
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tttcaaggaa gggctttccc tcctca 326

<210> 789
<211> 475
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI112365

<400> 789

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gtcctggaca agataataaa acactcgcaa gccttctgga tccttggact gggttgacatc 240
aataagggaa ccaatttttg atgttgtaaa agaaatgtgc tcatctccaa tgacaatttc 300
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<210> 790

<211> 460

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI112511

<220>

<221> unsure

<222> (1)..(460)

<223> n = a or c or g or t

<400> 790

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attaacatca aaacaatcat ctatttagat atgcttttct gtaaaaaagg aatatattag 180
cagcatttat attttccgca atcacacagc ctacagacat gcagactaac tctgtatcta 240
tttgagtgga tgtagtgtt tgccccgcat ttcgaacacc aaaaccacc tggcagctgg 300
gggttggttt tattttgtta ttataaaata actgaaaaat aaaaaaggca ttaatttcta 360
caccagttag aaaaacaagt ttttgcactt acctaacatt tgattgtcta aaaaacattt 420
cagtttttaa tctttcaaca naagaaagat aaaaatgaca 460

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<210> 791

<211> 476

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI112571

<400> 791

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ttgaatgcaa gctaaattgc aacaatgtat tgattcgaca tttaaatata ggacttgcaa 240
taaaataatc attgagatat atgcttctac ctcttaccga catttttagaa actaccctct 300
acacgtagat ccagttgtaa cacttgacag tagcattatg gagcatggta taactttggg 360
acacactgca gatatggata gtgatttccg taaatgacag tccttcacca gatgaagctc 420
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<210> 792

<211> 372

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI112926

<220>
 <221> unsure
 <222> (1)..(372)
 <223> n = a or c or g or t

<400> 792
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 agcgctctac cactgagcta aatccccaac cctgaggggc acagttttaa ttccactgtc 120
 ttcactctgct taagattcct ctgtgagagc aaaaaagagt gaagagccaa agaatttgac 180
 ggctagaagt taggaattct ggtggctggt tcatagatca caaagtgctg ggagaaagac 240
 actatttcct atcagcaaac tgtgaggtgt tgactcgaca cagacatatg aactcacttc 300
 aaatgctttc gtctgtgtgg accattatac caatgtggta tgacanacac acacacacct 360
 aatangagct aa 372

<210> 793
 <211> 539
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI112964

<400> 793
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 tcaaccattg acctaggtag gtactgagta ttttttttagg taaatcagcc ataatcctat 180
 caaatgaaaa actcctcctt cctacctatc tttttatttc ctttgtgcat ttactaaaa 240
 tgctccatgt ctagacacta aaacaattca cctccacagc aaagcttaca aaatttccag 300
 ttgtaagatt ttaaagaatg tcccttttcta tcgctcttca gtcacatat cctgatcagc 360
 tggtcttcag agtctacgta gatttgtctt acagggttca ttcattttaa agtgcaaggc 420
 tgcttttagta tccttaatta gtagactgac tttttctgac ttgatttccg atccagttgg 480
 aaagaactaa gcataggact gcatacttga gctctccccg aggagagaat ttctgactg 539

<210> 794
 <211> 493
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI112969

<400> 794
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 tagcaagttt agaccacgag ggcgttgtca ctggtaacaa catttgaaaa ctgtacactt 180
 gcgaagaaca gcatgttcaa acattagtgt gtctgcatca gtagagcttt tacatgtaac 240
 aacatgctc tttccatgta tgacaaattt aaaaaatatg cattgcttgg caacatgaac 300
 taggcaaaaa tatttctttg ttcactgact ttatacaggg aaacaggaca aaagtcatgc 360
 atgtacaata cagatgcctg cacaggcat gcaacaaaag gacgcctttt gaaagtccgc 420
 ttgcgttagg cataaatatg tgagggttat atattaataa gggaggaagt cttctgttcg 480
 ccatgactaa cat 493

<210> 795
 <211> 461
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI113008

<400> 795

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tgtaccagac tctggagagg gtctgccctg agcgcggtgt gattgctctt gctgttctag 180
taggcacatc gatgttatag tattgatctt tggaaaaggc gtagtaatca tagccgtcag 240
gttttctaata gttgggcagt gttatcgagg aagtaacgac atttggaac cctctccaca 300
gtgtgctcac cttgtcttca ttgtggagga agcctttgtc ttgataagag gctttgatgg 360
gcaccgagta atggatcctg aagggtgtgt tctggaaagg tccaacagca cgctcaaagc 420
ggcgctcct gacctgtgt gctgcccca tacactgagt a 461
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<210> 796

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI113046

<220>

<221> unsure

<222> (1) .. (492)

<223> n = a or c or g or t

<400> 796

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tactttttga cccatcccc atccataaat cccactgaaa ccaatacctt ttggtattct 180
aaaattcctt ccattcctga ttttcatcag tttttattga gtactagatg tggaaagcatg 240
aaaatgtaaa aaaatgatga ctgaattaat gagggaaatgg tgatgggtag atatgaaaaa 300
aatggtttat tgatcaaata tctggaaata caaatacact gtttttcttg ggaagtcctg 360
aggtcagggc tctggcgaaa cacttcttat tctactgcgc ctcaggcatt tccataatct 420
gtgctgcang gaggcgtgta ttttgcaact gcaaacctcat ctttctcata gtaatcgtag 480
actttcacta cg 492
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<210> 797

<211> 346

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI113055

<400> 797

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aaaaaaataa ttacattac aaaggtagcc ttaggaagga aatactgacc aaaaatttgg 120
taccatcatga ttattcaaac aggaacaaac ctgcaatttc cctggaaaaa ttcccgggtg 180
ggtttttaac tactttatta caattatgaa aaataaacag gccacctgtt taaaaaata 240
tccattccca attttcaaaa aaaaaaaaaa aggtcaacct tgtaccttca aaactaggta 300
tcaaaacttt aggccagggt atggaggagc aatcccttac ttctac 346
```

<210> 798

<211> 424

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136478

<400> 798

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ccccctagcc gacatgtcgg cgccaagga gaaccctgtc agaaaatttc aggccaacat 120
cttcaacaag agcaagtgtc agaactgctt caagccccgc gagtgcgcatc tgctcaacga 180
cgaggacctg acgcaggcaa aaccatttta tggaggctgg ctgtccctgg ctccagatgg 240
caccgacttt gacaaccag tacaccggtc acggaaatgg cagcgacgat tcttcatcct 300
ttatgagcat ggcctcttgc gatatgccct ggatgagatg gccagacctg tgccctcagg 360
atccagcaga gacttggggg gaagagaagt gtcaacatac acaactgcac tcagcctcgt 420
gccg 424
```

<210> 799

<211> 380

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136514

<400> 799

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acttgatgaa gtacacagt ggccttggtt caacctgggt tatgacctat ccaactctct 180
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gggtcaatgtc taaaggaggg ggctcactgg acctggccat gatacggagg tcacctctct 300
tataatcatc ctgtgcttta catgtaccag cttctggatc tttctcataa gtaatatataa 360
agctggcctc gtgccgaatt 380
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<210> 800

<211> 352

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136630

<400> 800

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atgcagactg ccttagacac tcagaacgct caaagtcagg agacgtaaga aatgaaaagg 180
agactgggtc ttattgtaca agaggctgaa ggtatgggtt gtcccccgcc ggctggaact 240
tgtagccggt gagcacgaag aaggccaggg tggaactctc caccaagagc tgggtacagcc 300
actgccactg gaagggcact gccactcgaa gcagaatggc gatgatgcgc gt 352
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<210> 801

<211> 282

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136702

<400> 801

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tttttttttt tttttttctt taatgtaaag tgtcattatt taaaaaaaaa atacaaaata 60
aactacaagt ctgtctttgt ttacggccct ttgttttctt ttaccaaagt ggggtttccc 120
tttctctctc atcagctttg gccaaaccag aggacttgta aggaaagcag agcctgcaca 180
gtgagagaac actgccttcc cacatcaaac ccatgacag acatacagt actcagtcac 240
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ttgagcctgg cctgaagttg ctaaaggctt tgtgaggata ac

282

<210> 802

<211> 435

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136714

<400> 802

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catgaattta ctgtacaatg acagtgtaca tggctagggt aagtaacgtc accgacttca 180
cagtcagctg taaagagtgg catttcactg gatgcctcga gagacagttc tggtggagta 240
tttgagttta aagactttga aaggaaaagag aatttggctg aaaagtatcc ttttcttttag 300
ttaaatcgaa acaagtctcc agtcagcacc cagtcaaaca cagtgccttg aactttgggt 360
aatttgtcgg acagtatact ccacgccact gtggaactct ggagaacgga aagggtctgg 420
cacagcctcg tgccg 435
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<210> 803

<211> 475

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137049

<400> 803

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tctagctttc tttataaggt tcaattatct tctttttaca ttaggattat atctaaacag 180
atcatcagca agagagtctt ctttcgcttg ttgtttctgt acctccattt catgtttcaa 240
ccactcttct aattcagtat tctttcgagc atgggtgacct attaaatctg atcctccaat 300
aatgtgtgga agcttttctg ctccaggaca cgtagccttc ttgaatttct tgaaattctt 360
cagttacca cgaccattta gtgggcacag atttctggaa gagttattat ggacaaccag 420
tgacctaaat tcagtcagca gcagttttct tggaagcctc gtgccgaatt cttgg 475
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<210> 804

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137211

<220>

<221> unsure

<222> (1)..(446)

<223> n = a or c or g or t

<400> 804

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agtttcaaca actattctct ttcaaccggg aaatgacggc aacttctgtc ccaacacccc 120
aagaacgtcg tcggcttttc cttcctaagt ctcatatag agtgggatga agatatagga 180
actgtgcctt ggggaggggt cactgtgtga gggctgggtc anaagttgct gggaggggac 240
tctgtgcatt ctgtccaccc agagaaagac agatttgctc acgctcactg caggcgatgc 300
tgggcctgcc gagcaactag cacacataga cataaggtct aagctggcca aggccagtga 360
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gagaatggat actggttcag gagggcagct gaacagcaag agccacagag agagagatta 420
 ttcctgaggt angaactg tatgca 446

<210> 805
 <211> 399
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137345

<400> 805
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 ttgaggccag cctgggtctac cagagtaaga cctctctcca agaggacgac agaagctcgt 180
 gggctggacc ttgctgttgg gaagcccagg tccccgtagg ctccagtgtcg tcctagtggg 240
 cagggcagag taggcattct atggttgggc ttagggttca ggtgttaagt gtctgtctgt 300
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 tgaaacccca cttccactga tatgggagtc agcttctca 399

<210> 806
 <211> 392
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137356

<400> 806
 tttttttttt tttttttccc ttttaagattt attttatgta tgtgaataca ctctccctct 60
 cttcagacac acagaagacc ccattacaga tgggtgtgag tcaccagggtg gttgctggaa 120
 accaaaccca aatctttcac agaacagcaa atactcttaa tctctgagcc tcttcatggt 180
 tcttaaataga acaataaccc ttttgtctac tggcccagag aggctggggc cactgatcta 240
 acgtggaccc accatattgt gctgcacgag gtagcgaatg gtctcccgga tgccagaact 300
 gatgagggtg gacgtatagc ccaagaaaat ggtgcagcct gtgagtgggc ggcggctctg 360
 agtcagggtct tcgtgatgat cttcatctac tg 392

<210> 807
 <211> 540
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137406

<220>
 <221> unsure
 <222> (1) .. (540)
 <223> n = a or c or g or t

<400> 807
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 atattaatta atcttacaac tgtgacattt ctatgggttct ttcttcccta tcataccagt 120
 gtcccttccc aagttggaca cacctggata cattaaatgt tttatttttg tgacagacaa 180
 ttctttttat tttagttaga tgttttgaat gcctacagta aatctgcca ttccgggag 240
 tcgcagacct cctggcctcc ccccaagtct atgatctcat tttcacagat aaacaccac 300
 ttctcagacc agctacccaa agcatgcatg ttctcgagtc ctttgcaaac cggttatttt 360
 gtctacataa cctcctcata tcccttctc acattcttcg taggcagatg ctggagctgt 420

tgctctaacc tcctgagata tgggtggcccg ctgggggagct ctgtttggct tcatttgacc 480
 ttncataacc agctcncacc agtccagccc tttctctgag gaacctggag aaaaattagc 540

<210> 808
 <211> 519
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137420

<220>
 <221> unsure
 <222> (1)..(519)
 <223> n = a or c or g or t

<400> 808
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 cagaactagg cagaaaagcc caggccacaa atacaaacag cgcagcactt ccctgggagg 120
 ctggggacag acatggcacc atggccacag tggctggagc tcagctgtcc tcatcatcat 180
 catcggcaga ctcagaggcc aactgcatcc tctcatggtc ctgatgtcct tccccaggcc 240
 tggcgggggtc agagctgtcc tgtgggctgt catgcagctc ttctgaggag ccacccctgg 300
 ggccatcctc caagtcctgc ncgtcttctc gtgctccatc ttctgtgttc tctcccttct 360
 gggatgcggc ttcaccattc acaggtgctg accgatcagt gctgggctca tcctccgcca 420
 gctctctggg agcctgctcc caggctgttc ctccacttct cgcacgcggc cgttcttctc 480
 ggctttgatc tccgcctcgg ggtttggggg gtggcttct 519

<210> 809
 <211> 416
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137468

<220>
 <221> unsure
 <222> (1)..(416)
 <223> n = a or c or g or t

<400> 809
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 tttattaact gctttggtga ccctgaaaca tatgaggcaa agctagataa acacatggta 120
 gcctgggggc cagcacagga acagtgaag gtggaagagt tggggcaa at ggagaggagc 180
 ctgagggaga gtcagggaat ancattcctg gctgagggaa tggggaatgg cagatgctgg 240
 gaatctgcat tctgacatgg gaccaaattg cttcagtggc aagcggggta cccttgggcc 300
 gcacccagc tgccatcctc acaaggctcnc cagctctgcc acgtccagca gtcgctgtcn 360
 cctcacggcc tcgggccccg cacagagtgt gtcgttctgc gagaacatct tatgtc 416

<210> 810
 <211> 432
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137488

<400> 810
 tttttttttt ttttttttgag atgctcgaag tttattgcaa agaggaaggc ggggttggtg 60
 tagggagggtc aaggagaaaa ggaagaggag gaaggaaggg aggaacatcg agaggagagg 120
 agggtaaaat aacccggaga ctttcttgct gttgagaagg tcctgtctcc ttttcagggt 180
 gatgaagccc accagacatc acaaacaact gcaacagggt caccggcagg cagcacaggc 240
 aatgcctcat attcagatct tcacagttgg gcatagtatc ttgtacactc tgggtgaaatg 300
 gttctcacag caggagcatc acagccagac tggacattct ctcaaagggg tacgagttgc 360
 agttctgaag gcccttggtc ttggttggtc acaaagttca gtctgttta ctgtgatcct 420
 tgccctcgtgc cg 432

<210> 811
 <211> 490
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137506

<220>
 <221> unsure
 <222> (1) .. (490)
 <223> n = a or c or g or t

<400> 811
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 ctgccgtgca ggttgggctg gccttcctgt ggccccacc accacaatta cccagcagct 120
 gggttgacta ctttccctag gaagagcagg ctctgggtgg tcacctccca naggagaagc 180
 aggaagggcc tgtaaagtg ggcgtgtggg gctgacgtca tggtcaggga tgggggctgg 240
 gagagcaggc canaggcagc tgcggcctca gttcccttct cgttcatgtc cagcacggcc 300
 ttgtgcgata ccctggagac agttttgttg agctgcccc taattcctga taggtcggct 360
 tccacgtcaa agaggctgct gagggccaacg aggggcagga tctcttccag gttgtagggt 420
 gcagaaactg aaaaccgtgg caggtgcaaa tccaacagac tccacgtntg agtcatctgc 480
 aggtgcttca 490

<210> 812
 <211> 522
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137572

<220>
 <221> unsure
 <222> (1) .. (522)
 <223> n = a or c or g or t

<400> 812
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 ggaagactga caagaatagg ggctagggat tctccagaag tctcaggctc atcagctggg 120
 gtgagttact gtaacctccc ttacaatcct gggtcttcac aacaagtcgg gcagtgggtt 180
 tccaaaccgg accgcgaagc ttctcatggt tcatcagggt gttccattaa acatgcacgg 240
 caaaaaggcc gttttctcgg cattaataaac agcaaaaggc agggagtggg gaggtgtatg 300
 tgttcttana agtcaagaga ggtgtcacgc cccgagggga ggagaacgtg agtctgtgct 360
 ctcttttact ttgggttggt gaatcccagc atacattgtt cagccagccg gtgccaccgg 420
 atgcccggaa cctccttggt gagggagtgt ctgacctctc accatgcac gagaaaattc 480
 cgttgtctct taagacatct cagcttccat ttggatgagt tt 522

<210> 813
 <211> 415
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137586

<220>
 <221> unsure
 <222> (1)..(415)
 <223> n = a or c or g or t

<400> 813
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 tattaaggcc cttcaggcag agttcaggag ctctgtatg gctgcctgct gctccggact 120
 gagttgagct atgcattcag tccacaatcc tccagaagtc tgtacttggc gaactacatt 180
 ggccaggcgt ttggcacagg ggtcttcctg tttgatggcc tcatgcattt ctcttctctg 240
 aattatactg aatatttttc gtagattggg attatttggg ccaagaacaa ttggatgatt 300
 actttcaatc aggtcacaca ggtaactgaa ggtctggaca gcttcttctt tatcttcatg 360
 tanggggagc cagcacagcc agtgtggtaa gacctctcc acattcacgc agtca 415

<210> 814
 <211> 607
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137761

<400> 814
 tttttttttt tttttttggg aattctcaaa ttttatttcc aactactgta gtaacaaaat 60
 accagtgata attctgcagg aagagtagca accttttaaa taaacaaggc cgtaagttag 120
 tattgcaaca gtactttggc ctatggagtt tgataggatt attgcatca gtcttatagt 180
 attgtagact gtgtgtcttc tatgtctagt aataaaaata ttcctctgac ctcatgact 240
 caccacacac acatatttct accctatgtt gagcactgcc cttttagggt gtactaaatg 300
 agagaaaaag tttttgctcc tgggttttcc aagagtatac agagatagca gtcacttcca 360
 cagtgaggta caatattaaa ctttgagttg aaaaataaaa cagtatccta tttatgccct 420
 ttctctagga gtaaaaagac acacacaatt acaaacataa aatgaatcaa agttctatgt 480
 tattgacagg agtccaaatg agtataaacc tgctctcttt gtatgctgtt tactgccttt 540
 aaaaggctgc tgacagagtc aggtagatta aaagctacga atgtattcag cttttatagt 600
 gaacctt 607

<210> 815
 <211> 384
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137856

<220>
 <221> unsure
 <222> (1)..(384)
 <223> n = a or c or g or t

<400> 815
 cggcgcgcat tctgcgctgc tggttccttg gcccgagcc agctagtggc ccccccttg 60

ttcactcggc cagacttcgc ttcgtactcc acggccacgg cacagatgtg cacggagttg 120
 ggggtggacct tggaggatga ggcaatggag tantatcggg cctgcaggcg tggcagcagc 180
 tcacacaggt ggtcgatggg tggccgcagt gatgggtant cttggaggat ggctaggatg 240
 tgcctccggg cttccaccac ccagctcagg tacagctcct tgcctcggc tgaggatgac 300
 gccatcttgt gcagggtgctc ctgctccgag ggctctgagg cgtactgtgc cagttcgtag 360
 agcacattgg tgcgtggcgg gtta 384

<210> 816
 <211> 425
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137988

<400> 816
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 tataaccatg ttgaatgtgg ggggaagctg ctgcattccc aaactctgta cccctcaagc 120
 aaatctctaa ggggccccaa cacaaatgct gaggctttaa tggaatttac acattgcttt 180
 gtccctagtt cataaagggtg aactgaacac agcacctgta agtgacagca gttgtaacca 240
 gaagaagaat ctggactcgg acttttattt ttatatggaa agaataataa ggtgggcca 300
 atgagcctac tcacaaagaa agaagttacc ttggccttat ccctcacaga cagctaaggg 360
 aagcaatgtc tcttggtctca caaagtctga taataaaaga tattaatatg tggcgcctcg 420
 tgccg 425

<210> 817
 <211> 401
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI138034

<400> 817
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 aagacagttt attataaatt tggactccta cagttctggt gtggcgctc gacatttaca 180
 gtattttctta ccattttatc ttcactccaa acttgctaaa caaagagttc ctctccgcac 240
 cctcgagggt tcgcttttaag gaaatacttc acgaccacac gaaaccaca cacacagaac 300
 atttggtttt ttttttttaa aaatatttac agaagtctgt ccagccattt ggattttgtt 360
 tctttgcca tactgagatc aacaaaaaag ccctcgtgcc g 401

<210> 818
 <211> 511
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI144585

<400> 818
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 caaatctgga gataaatatt ggtcagattc tctaaatctg ggtcctcact acgtatagag 120
 ctagagtctg taaaattcta aatcttgctg gctgtggcac agaaccagta gcttccact 180
 ttttcccttc tccccagggt acatggggaa agagggcaca aactgacaag acttgatcac 240
 ctccaaatga caaaattgca aaatcccaa ctcccagcac ctgaaactca ggatattggag 300
 acctccagc tcagatatat atttttaagt ttctgctttg ccacaactgt ttgtcaccaa 360
 attctggaag ctattgtctt tacccttatt aaaaacaaaa acaaaaccca tttataatct 420

caattcttcc aaatggtcag aattttgatc tattctgaaa ttcaaattcc ccagttcatt 480
tttaccctt ctctcaagac ttcctcagag g 511

<210> 819
<211> 576
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI144586

<220>
<221> unsure
<222> (1)..(576)
<223> n = a or c or g or t

<400> 819
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gcttttctat tggcaattgg gacagactga tggaatagtt tggaatggga tcaaattggaa 180
agattgcttg ccacctacag acaggcacat gagagattcc ccaagctggg gccaagggtgg 240
gtcaggccct anagcaaaat aattccattt ccctccagag tgaagggaaga gaaaaagctt 300
cagatgttaa cagtcaaagt cagagctgag ctctctggat cagaaaaggca tttcctaata 360
gaagcaactt tgtaaggcca gaggtcccaa agagctcacc tgttccacag ctaggaaaacc 420
ttanggttag ctgaactatc ataaggaagc taccaagtgg ggaaaagggtg ccaaattgccg 480
tgttctggat aagggtgtat gttctgccag tactaactag acaagcaaag tattcattat 540
agttgaaatc cagaaacttc ataaaaagcc ccatca 576

<210> 820
<211> 374
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI144612

<220>
<221> unsure
<222> (1)..(374)
<223> n = a or c or g or t

<400> 820
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acataaattc aaattttatg tcaaattttc atggttctag ggacgatgtg cagagcctct 180
ttacagctct ttcctttttc atctaaaagc aagagtaata acaccataat aacattttctt 240
ctttacagga tgagcaacat ggctcccca ggcagtcatt cgttagcttt ccattattaa 300
cccagagaatg ggtgtgtcnc taactatgaa gacagctcac aatttcttta agatggagta 360
gagacatttt actt 374

<210> 821
<211> 510
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI144741

<400> 821
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 ttatcaataa agaattaaac cattgaaaac taaaacctac tgccttaaag ttgggggtcca 120
 tagcagcaga cacaaacata aaatccagtt gaaagggtcaa ggggtcaagggt ttctagactc 180
 cgggtgacaac agtcagggtcc tgattatatg gactaatgac ggggaacgggt aacacagaga 240
 atgcagaacc cacactcaaa cgacccagag tatgtacta tacatccaac cacaagactt 300
 ggaacattcc ggtgaagtga agcaggtcca gagctctgct tcagcaagat caagtatctc 360
 ccagatggcg tccgcaagca caccgctccc aaagctcctc ccagccgaaa gagggcctgg 420
 gagaccaga aacctcaacc ccaaagataa tagccagcat tctcgaaacc agtctttctg 480
 gctccaaaagt tcctggtgaa agggacgtgg 510

<210> 822
 <211> 588
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI144797

<220>
 <221> unsure
 <222> (1)..(588)
 <223> n = a or c or g or t

<400> 822
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 aaaaatactg cccatattca ttgacatgtg taagccccag ttgaaataat tttagttcct 120
 tttgtattaa aacactaaat tgagatggat taagtcagggt ttgtaccatt taaaacaaat 180
 ataaaggtaa gagtaataat ttatcaaacg tctctaattgt ttacctcccc tgtgcccaca 240
 tctctttgca caggatatctc aaccacagac agtgcaatga aacctgtcgt tactgtacac 300
 agagccacgc agtggctaataa tttactotta aatcattcag caaatgagat catctattaa 360
 aaaaaaaaaat acctcgcccc cctttaacat catttgaaat tacagaataa atgctgccac 420
 tactagaaaa ggaatgatac gacctggaag aagatcagat tagagggttac catttcctct 480
 cctccctcca tctactacggc aagggtcaagt acattcacga aagccgtcct cactcccgtt 540
 acccagacgc atctgtaaga cagggcggca cagcaggggc tgcacagc 588

<210> 823
 <211> 488
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI144832

<220>
 <221> unsure
 <222> (1)..(488)
 <223> n = a or c or g or t

<400> 823
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 aaaaagcgaa cagtagtaac gtctactttg gtaaaaacag tccccgatct tgggggggcta 120
 catcctctgg acgggcttta ttcccagtat atogaagcct ttggccatga cagcagctac 180
 ggcttcacac aggagcatcc gccacatgtt caccttcagc actttcccag tctgccgatc 240
 tttctccaca cagtagcagc tgtcatagaa ctctgtgaaa gtggttgcta gtcataaat 300
 gtaatcacac agagtgtgga gaaacagggtc atctaagatc ttctgttagga tttcggggaa 360
 ccgtaaaatg caccgtccca gtttccactc cttctcgtgg tccaaaatga tcttggtttc 420
 ncgagctgct ctctgcagca tttcctcatc gatattggcc aggcgtgcaa tggacctgat 480

tctggtga

488

<210> 824

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI144936

<220>

<221> unsure

<222> (1)..(512)

<223> n = a or c or g or t

<400> 824

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gtaatgaaaa aggcaagttg cattcataaa agatggcatt catgttcatt ttagaaagca 120
acaaagtaga tgtaaaaaaac tgcttaagtg aaaaatgtaa tatcgagtt ccattttata 180
agctgaaaaa tgattttatc aacatttgca taaaatctgc actttatata ctgcatgtta 240
ttaaaaaatt ccaccactaa attatgactt ttgcaaattt aggcttacat ttatactgtt 300
gctggtgtat atgtagtaga tatggaatgg atattttttt gtttaatagg caacatcctt 360
aaacaataga caacaatttg gaaaattaca gacattttga cagctcaaaa attattattc 420
acatcatagc aatacggtcc tactgttaga tttcttgcca tcttctgaca taagagtagt 480
taanatatag tgctaggaat gctggatggc tc 512
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<210> 825

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145081

<220>

<221> unsure

<222> (1)..(563)

<223> n = a or c or g or t

<400> 825

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aaaaacagaa ggcaacttga tctaataatt tttcaagcat atttttgttc taataatagg 120
gggaaaactc tctataaaga aagttaagtc caggtgctat aaaaatcctt agcccttcac 180
atcacataaa aggatgtatc tcggccaatt tgttacctcc acgcacataa ttagacatac 240
agcatgcatg gtactcttag ctctatcccc agccctgcag cacaacanag gaaaagcccc 300
cagattaaaa aaaaaaaaaa aaaaaaatcc aaaactgggc ttaggctctt tgcattttaa 360
caggtaagat gcaagctgct taaaaactat ggcatattga aaatataacc tctcctgtat 420
atgctgatat aattttaaatt ttaaagggtga aaacatacat ttactaacia aacacatccc 480
tatagaaaat gtttatatag tggaatactg cttttcagac tccatttgca tcagtaacia 540
tagtgactga ctctagtcca agg 563
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<210> 826

<211> 443

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145095

<400> 826
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 taattgtaca ctcatgtgtc ttagtctgta aagttgtatc ctcagctcac ccataacctt 180
 cccagaatag aacactctgt catacattaa catagagcct tcaaaaggta tacacaaggc 240
 tcaactctgc aggccatacc agatgctgtc ccatccacta gacagttaa gagggacaca 300
 gcaagggcca tgcagacccc atctcaaaca tcccagtact aatactctgt atttgcttct 360
 tgtgtctgtc ttttctgaac atcaccacat ccagttttcc ttcgcaagaa gtctcctctc 420
 actggccatg catttctgtc cca 443

<210> 827
 <211> 556
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI145385

<400> 827
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 gtcacagat acagccaaag aaaaggggtt ataaaagacg gagaatcccc ttctcatgtg 120
 ctctgccat ctgagactcg atggcaacga atgctgtgta taaacaactc cattgagtaa 180
 cccagtgttc cctttctgta cagagaagaa ctgaattcac actgttaaaa gccttttctg 240
 gcacaactga gaagcagggc tcatcttttag gagtaactcc taacagctag taaagcaatg 300
 tgggacttta cgttacttca catctgttcc atttcagagt gggaattcag gaaggccctc 360
 ctaccttccc agtcaactgtc ctctccagac ttctcagacc gtacgtgagc cacacaccat 420
 gaagctactc atgacagtgg cagcagacaa cattctctga actgacaatc atgatggctg 480
 gatcatccta gactttgttg atgctaaagg atttcttaga gaaaaccctg attcagaatg 540
 ctgtgagcag ctgtca 556

<210> 828
 <211> 567
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI145556

<220>
 <221> unsure
 <222> (1)..(567)
 <223> n = a or c or g or t

<400> 828
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 tatagagtgc tgcttcttac atgcaaaact ggtaaccaag tcaggtaaag aaatacttat 120
 agagagagag ttctggatga tatctttccc ctctagttca atgtgctaag actgagacag 180
 aagcagaatt tgtttctgtc aagggcaggg agggcagggg gggcagggag ggcaaagata 240
 ggacctcact aggtaacctt ggctaacttc aaactcagag atccagcctg ccactggcct 300
 accaggttct aggagtagag gagagcgcca ccacaccag tctgtttttt gagacaaagt 360
 ctactatgta agttcagatt ggcttttaac tcaaaaatct tcctatagcc acctccaaag 420
 taccaggatt aaaggcatgg gccaccatgt tttggatgac cttgagctcc tgatcttctc 480
 gcctgnggtc tgaactcaga gctttgtagt gctaagccat aactccaagt ctataagcct 540
 tcatccttga ntcactgtgt atattaa 567

<210> 829
 <211> 439

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI145569

<400> 829
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gtacagatgc tgtacattaa aaacataaat acccctctta caccatgtcc acctcgcaca 120
aaggactcta cgcactgctc tctgaagcac ataaccacac taaatgtaca aagagccatc 180
cgctggcccc acatagccaa ctccaatcag caagacgtcg attagggtcc atattcccag 240
accaccaaag ctgaagagct tgccgaggcc ttcacgccac tggcccaggt agaagcgatc 300
cgctccaaag cccccaaggg tgatgctcag agccagagcc gtcgaccact tgtagcctcc 360
agtcagttg cagtacagca gtttagggaa agtccggtta cccaagcaat gaatgtggtc 420
gcgcacagtg cagttggca 439

<210> 830
<211> 480
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI145870

<400> 830
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attatcatcc aaactcagaa ggcacagcca acacatacac acaaagtaaa caaggcagga 120
ctgcagcaat agctcactta acaaaatttt atctgacttt ggggtggagga actttcccaa 180
gtaaaaaatca actggagtgc tctgtacaaa gctttcctaa tgtctaactc cattaatgaa 240
ttacttgctt ttgcagcttt taagtcttga gctaagcctt cagaatgatt tattgaaaag 300
tcttattcag ttcagtttta gagaagaaaa ctacaacttc tcaaagttta gtttaacacg 360
gtctcctctt ggcaagcatt agatatcttt agcttgactg ttcctatttc cccctctgtc 420
ccagctcttt tagatcacgt tagttatttt taaggatcca tcttttttga catgtctagc 480

<210> 831
<211> 421
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI145931

<400> 831
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gagaggacta tgtacatttg agtgcagatg cctgaggcag ctgaggcact ggatcccctg 120
gagcttggtt ttcaggcagt tgagtgcctg acatgggtgc tgggaactga acttgggtct 180
ttggcaagag cagtttaggc tcttgaccac tgagctggct ccgcagcctc ccacactggc 240
ctttgaagaa atactgatct aagagagcgt gggtccactc agtagctctt ggggtctcagt 300
ccaggtctat tcccaggagg cctagtggat cctgcgggtc gtgtagtcca gaaccatgct 360
ggccgcacca agcaggggcg ggtcaaccaa gtctgaaacc actacatcca catcctgcac 420
g 421

<210> 832
<211> 394
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI146177

<400> 832

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ggatatcctg aggcactcgt gttgagcctc actcacaccc gcccaagggt ggaagcttag 180
catggacctg cctccactg gctcgtctcc tcagtgtccc acccttcccc agaccagaga 240
cttcattaga cagccaaagt tatgaagtga gacagtggac agacatcttg gttcgggtggc 300
catctcgga tcttgggtct ttggttcctg tactctcaaa ttgctttcca gagatgggaa 360
gtgcatcctt tgagggaatg tttaaaagta atca 394
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<210> 833

<211> 520

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI146215

<400> 833

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caaacattat gctatagaga tgccaaatga atgaagtttc tttgcctgcc cctgaggagc 120
tcacattcta gtaaaggaca ctttaaaaaa taaaatatac agtacaataa gtgattcaat 180
agaggtaggt tgcaactata atgggtgacca aaggaagggc cagggttaatt aatgtcacag 240
agtctcaaga acgcatggag tttcccagaa gaagcctagg gctctccatg caaatatggg 300
gtctacgaag gtctggaggg ctacaactct ggacttctgg aaaactcttt aacactctta 360
tcagagcaga gtggcaaaaca caagaggagg gtcttagata ccaagcagag actctcacca 420
aaaagctcct aaaactgcct gtagcagggg tgaggctgaa tgcttctaga aagcccaatt 480
cggtaatctg ggccaacaga gatgggaaaa tatacacagg 520
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<210> 834

<211> 421

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI146216

<400> 834

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aatcggttac gaaaacttga ataccttttg cataataata ctacggtctc actctctgct 180
tttgctaacg actgggtccc tctctcgctc taaccctggc cacctcgtca agcctcgact 240
gccaagtcca cgccgagaat caccaaagga aagagggtgag tgggcatgga aggagggagg 300
agagagagag agaagggaga ggagaaaagc aggtatcata tacaagcaat ttctacacat 360
atattacaca ctgggataat gaccgatcat taagatatac ataattcata taaaattttg 420
a 421
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<210> 835

<211> 456

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI146237

<220>

<221> unsure
 <222> (1)..(456)
 <223> n = a or c or g or t

<400> 835
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 aggctggctt caaattcaca gcaattctct taccttagcc cccaaaatgc tgggattaga 120
 ggtgtaaacc accatgccag gctttaactc gaaatctcaa agcctactga gatttagaag 180
 ctttgccata aacatgtttt tttttttttt tttaaacttt ttttcctttg gaaactacca 240
 tggnaataaa tgattattgt atatcaacaa aattattctc tttttcagtc aaaaataact 300
 ttcacaaaat acctggctaa cccaatagaa aaatacaagt tacattctat cctgaggtta 360
 aaagaaaaaa agtttgatcg gggagggatt agtgaccaca gtgtactctg tcagcgtagt 420
 acttgctgtg gctaatttca atgaaaagga acttct 456

<210> 836
 <211> 637
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI168953

<400> 836
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 tgatgtaatg tttcattttac ttgattaatt cttttctcta aaagtaatag ttaaaaattg 180
 ccaatgggta aattatgaat acaatcgtgt acaaagccaa catagtatgt ttaccattt 240
 atctctttca agttctgcta ttttaatttc tgaatacaaa ggaaactccc agaaaaataa 300
 agccaaaaga ggcttaagtt cgacactatt atgtttccaa agtttacctt aaatctacag 360
 ttaaccagta gatggttgga gaccagagtc attcctttta taggccagag tgactctggg 420
 ctcttatgaa cttaaccctg aaaggaggca gatgtaggga cttcagttta gtttggattg 480
 taagagggga ctctctacct agagaaaactt tgaataattt caagacttag aagcaaacaa 540
 taaaaattta caatacaatt aggatataat tttttaatat aatagacatt gttaattaac 600
 tatacacata tgggttagatt tcggcagtaa ccaagcg 637

<210> 837
 <211> 448
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI168967

<400> 837
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 agaaaacaacc tttgaggttg acaaaattct tacaggggtg aaggaactga gggatttggc 120
 tttagtttgc agtgaagtca actaaggctc aggaagccaa agtgcccttg ctagctacac 180
 aaccagtttag atctgggaac aaaatcttcc tactgcactg aacagaaaat ggggccca 240
 ctttgggcta acacaggaag agggccgac agaaatacta gcagggaat tgtctgactg 300
 gaggaatgac cttcggatca aaagttcaga tactcaattc ttgaaaatcg ggatcccatg 360
 caaaactggc aatgcattcc aggaaactag acggtcttca gcatacatgg aaaccagagt 420
 tgtagctcct agtaaccata taacggag 448

<210> 838
 <211> 534
 <212> DNA
 <213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI168975

<400> 838
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actgttggga caaactttga ggggcaacaa caggagggaa caccattgat ggtcagcaag 120
ggtcttaaaa tgggatacag agcacagtga cggtcaccat ggtgctgtca cagcacaagg 180
agctactggg tgctcatttc cttcctgaac attccctgag cctcagtcca cgatgggtcaa 240
cgctcccac aaacctggag cttttggact ctggctactt cctggagggtg aagtcacaca 300
ggccacgccc tgccaccccc aatcatggcc agtcaattgt cttcagtagg cctcagtact 360
gaacactcgt aactgcctga cacagctgac cctaccctac ctagtgcag ctggaggcat 420
tgtctccatt cttgcctgtc tgcctgtgac ctgagaaaga aatggggaaa agaaacttcc 480
actttcccaa gaaagctgga aaaaagagag ggcagattgt ttctgggcag gaac 534

<210> 839
<211> 255
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI169007

<400> 839
ataaatattc aatttattca aatcacataa gattaatcca aagccacagg cgtgatgatt 60
tcctggtaga atcaagaaga ttttcagtggt ggagatgatc tcatggagat tggaaatggt 120
caacttgcca cgagcaactg gaacggactg tctgtaggaa actacagaag agcgggggtg 180
gggggtgggg agtactatgt ctaccagcgc tttccgcttc tagctggact attattatac 240
agggagagaa tgcct 255

<210> 840
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<220>
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cttgtctttg ctgtccttac ccaacacagc tctctttttg aggcaagctt gagttacaag 180
gctgatccca tcttctagtg catatgacag ggatggagat cctgggttct ctaccccagc 240
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tgccccccaa ttctcacact ctcaggtgct tttcttagta tcagcagccc ctccacctca 360
ccataaaact ggatcccctt ttcttttagc gccttcctat ggcttcccat tgctttgagg 420
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<210> 841
<211> 522
<212> DNA
<213> Rattus norvegicus

<220>
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atcctactgg cttcatttctg ctagagaaaa ctcttaatat ggggaccttg aagaaatata 420
atggactcca cgaatctgct gcttcttgag gaaagagcta aagttcaaat cctctactac 480
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<210> 842

<211> 703

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169156

<400> 842

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aggtacacat atccactggg tccaggcaca gggcatgggg agatgctgca gtgagtaact 180
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<210> 843

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169163

<400> 843

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ctcttggtgt agactgctca ggactgaacc ccaccttgt tgctcatagc ttggcctttg 180
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ctagagggtg ctggaaagaa ggactccaga tgagaaaagc ttccatcaga ttgcctatag 360
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<211> 649

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169166

<220>
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gaggaagcat ttcatgctcc tgtcccaaag tacgtgacca gagagtatgt ctggcttctg 600
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<210> 848
<211> 634
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI169284

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tattagtctc acacacacat atacatgtac acaggaagga aggcaggctt atttacaaga 180
aaacatgtaa aatcaaagtg ggtgtcagga aacattgaaa aacaaacaca tacatgctac 240
aagaggcacc actgagtaca gtgctagga ggggagtgaa cagaggcaga cagacagggt 300
cagtcttcac agcatcagtg caatggatcc acaaaccatg ttacagctag ttcattgggt 360
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tttctgagaa atatcaaggg gaaagtcaaa caccagtaaa cactgtctct gaagtgcaaa 600
gctggagtga ctgaaattca gccaatactt cgaa 634

<210> 849
<211> 567
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI169302

<400> 849
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gctatgggca tctgggaggc tcccattggg catcaagtgg cgacacagag cagggtgtgc 420
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<210> 850

<211> 637
 <212> DNA
 <213> Rattus norvegicus

<220>
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 atgaagtact catcggcact gaacctgtaa agccactcgt ccaaaaagtg aaacagcaga 480
 gactgcaagt cgtctccttg ggtttccact tccactgttt ggagggggctc cacagtcccg 540
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<210> 851
 <211> 644
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI169327

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 tgccagggtc acaaatctgg attccgtggc aggaggcaa agtgatcgct ctggtagccc 180
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 gtgatgtgca aatttccgtt ccttaaaccg cccgcgatga gaaactcctc gctgcgggtc 420
 tgggacttgt ggacatatcc acagaggctc tccatggctg ggggtgtaggc gaaccggaaa 480
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 cgctggtata aggtggtctc gatgatttct ggggaaccca tgaatttagc cttataaacc 600
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<210> 852
 <211> 625
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI169337

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 caggactttc ccagcatcat ctgaaactat acatcccttg ccttacagcc ggggggtggg 420
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tattctgcaa agaagccaca aagacttgcc actccggttg gtaaaagcgc ttatagacat 540
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<210> 853
 <211> 491
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI169529

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 ctctaattccg a 491

<210> 854
 <211> 453
 <212> DNA
 <213> Rattus norvegicus

<220>
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<400> 854
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 gaaaggcaca gatagccata tgcaattaca tgttagaaat cagaattttg acagtgaana 180
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 ccaccacact cactgcaggc tcgtggctcc ctcaacccca ttcgccttca tcaggctgat 420
 gacctcattt cttccataga acctggccaa gtc 453

<210> 855
 <211> 580
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI169612

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 ggggtgatttc atcgaaattc acgcccagtt tgaaggaaat ctgggtgttt ttaaaagtac 420
 tctctgaccg gatgacgacc aagtccctt ctacgctgat gatcaagttg ggcttggcca 480

taccggccac ttctctggtg gcgaagccaa ctcccacttt tttcatgtaa tcatcgaaagt 540
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<210> 856

<211> 583

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169617

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 ggcttctctg tggtgcctca gcactttgta tggcttgggt gaaagatcca gggcaaacca 540
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<210> 857

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169619

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<210> 858

<211> 682

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169620

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 tgttcaaagt gctgcaagt cttgagtgtat aacggccttg tcatgttact gttgagatct 660
 gagtttgtaa accaaccata gt 682

<210> 859

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169668

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<210> 860

<211> 554

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169690

<400> 860

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 atacacaata aaacaaaagg tatattaaaa aatataactt ttcattttaa agaagaatt 240
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 caaacaataa gttgtccatt caaacaaca aatttttaata actttgattc aagtaactta 480
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<210> 861

<211> 652

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169695

<400> 861

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caggtaagga taaccatgta ttaagatgat gttaccacag tgaaagcccc tcctttgcat 420
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<210> 868

<211> 594

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170260

<400> 868

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tgcctggaaa ggggtcaaagg gtcacgagg acaaatcact gtgatgtgga accaaaatac 180
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tttaaggatg gcagagatac acaatgaact ctgcctgttt gtaatgagat gaaaaaaagc 540
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<210> 869

<211> 635

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170313

<400> 869

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tttaaatact tcattttctt attatttcat aacacctgta aaaacaacaa aaccagacaa 180
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cagagcttgt ccttttctct ccatacatt caggagcttt ggtcctgttt gatggggacc 360
acacttcctt atgcttggat gtcaaaactg agatcaagca tgtcaaaatg atgaccttga 420
ctgaggctca aagaagcttc ttactccctt cattgggtta ctagggtaca ggcagcacat 480
agcagggagg aggcagctca gtctggggag atggtttggg agagactatc agtgactagt 540
aaacgaaagc aaagagctgg tggaatgata ggtagaaagc taaaatgaga gcaagactct 600
acaataactc accctcctgg catggcatgg cctgt 635

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<210> 870

<211> 542

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170327

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tcccacaacc atgttcattg ggccacttcc ttgtatttga gcagtcaatg tactttccagc 120
acacttgccc agcagtactt taagtccatt cttacagggg gaaaatggat ttcaataatt 180
tatacaaacg tgggttatgc tcaatcactg caactccagc tactgtacac aggaatgaga 240
aggttataga aaagtgccac agcaacagtg cccaagaaa ggaaagaggg cacctttaa 300
aaaatggata aaatcaggcc aagggacttc agaggggaatg gaacatacag gaaatgacaa 360
catttcctttg caaaacaaat ggagcagcac tgctcttgat caggtgcaag tgctgatcag 420
ttgtctcatg atatttgtac actgctcata aggttcaaaa tcgtatcctc acacacagat 480
cacctggcgc ttgcactgga tttttgaaaa tgcaagattt ctgaatgata aatcctcgtg 540
cc 542

<210> 871
<211> 638
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170385

<400> 871
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ccaaagacat tgtgcaaaga aagcaaagat taagtacact ttagggagaa ggagaccata 120
cacatcggtt acacaggaga tcgggtggac aaaagaagcc atccgggaca ctctagacac 180
tgtaatatcc aatagcgttg tcaataaaac gagaacaaaa aaaaaaaaaa agtttcagca 240
atgtttacag tagacataaa tcttatacaa gtcaaaaagc tttttttgtt gttgttgttg 300
ttcttcagat catagagcat aaaatggaaa aatgtatatg taggtgatat ctaactactg 360
tacaattgtc actagttaaag tcgcttatat gtaccacagt gtaaaaaaaa aaaacaaaaa 420
acaaacaaac aaacaaaaaa ccccaaaaac ccaacaatac tgaaacaaat gaaaatcttg 480
aaaatcgctt gatgaaaaat aaaataacca gtggctttga acggttcccc ctggccatcg 540
gcgctgcaga agatgaaaat cttcccatca gaacagatgg cagaaccgag cccacaaaac 600
tgcgaccaga ctcgaccac ctgtagaaat ataccctc 638

<210> 872
<211> 673
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170394

<400> 872
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gctgtgcctt gttttgcaga cttagtaatt cttaaagaat ttacaaaatg aagccagtat 180
gttttagaat gtgattgtct tcaatgaaac attaaaatgc accccaaacc cataaagcat 240
acaaaggtta aggagaacat tttattgttc aagaagcagg tttgatggag aggttatata 300
tcaacccctt tggctgggca gttggtaggg cagagttcaa attcagtcac tcatttctct 360
cataaattac tcaactgaaa agaattgagt aatttactcc cattcccaga gattgagaca 420
cttggagctc ttcagggtggg cctactgtgt gcacaggccc ttgattgtaa atattgaaga 480
gagaacacat cgtctttcat agaagatagc tcaactgaaga tgtgctgtga tgaatagata 540
cataacttct aagacagcag tggaggaatt ttcatgttgt agagaattaa attctcagag 600
gtgaaaattg agcaaacccc caactattgc taggtgtcaa tcatgcagcc tgctggacgc 660
ccccatggaa gcc 673

<210> 873
<211> 608

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170426

<400> 873
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tggaaaaaca aatttactct gtttatatga ccactgtcct aagccattac aatagtttat 120
gacacgtggc aagtgttaact cagacaataa cttaatccag cagaagaaca aaaacatcag 180
tagtactgag tgaatatatc tctctcatat atatatatat atatatatatt gtatgtatat 240
atatagcttt gcacaatcag ggagcaaggc acataatgaa atgagtacat ttatgcagaa 300
gaaaataata gcaacaaggc tgaaagaaaa ccacaacttc atccttatca agctgtgcat 360
aatcctctga ataatgtcct ctttcaggta catgctttta aaaagtatat ttctacatta 420
tatctattta tgacaaaatt ctcacagcta gaagtcagag tgagccttga ctccattttt 480
ctttaaaaga aacagaagag gacaacccca gttaaagata ctgtgcaatt ctctttgaaa 540
acagtaaaaca gtattttttac aacactttatc acacgcta atcattttttt acctatgcat 600
ctcaggaa 608

<210> 874
<211> 452
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170447

<400> 874
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aactttcaaa ttaaatccaa ggcagacaca gaggtcga tgataactga acagtctgtg 120
acacagagaa catgggagtg aaacaatcct atttacacag atgtagagac agtagagcaa 180
ggaaaggcac ccccaaact tcacattcac caaccagggc caggcatcct gcctgtgggg 240
caaagctgtg gggccccat acctgcaaac acagggcaga gcaaccctct ttgccttctc 300
aatgctaccc aagtgtcaaa tcaatgggtg tggacctgac ttcttaaaca ccaagggttt 360
ctggcaggag atgaaaagaa aactcgacaa aagaggatct atgggacatg aagtaataac 420
aaagctctga aggctggaaa gctctatttc ta 452

<210> 875
<211> 500
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170617

<400> 875
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tacggtaaaa caaaaggctc aagaaaataa tctcaaaaaa aggaaaaaaa aaaagaaaag 120
aaaaagaaac ctgaaattct gaattaaagc tgaaggcgtt ttttaaacc tgttggtgaa 180
ccagtgcagt gtttttattg tgctgatggg tcagagaaaa gaaatatatt taaaacctca 240
gtccaaacgc ggccttcgct gcccctcccc ccaggtcga gtggccattt attttgtcct 300
tagcgagtgt gtgattgtca cgagttcacc agtcccaaat cctgccctgc tgcctgcccc 360
ctggctagcg cctgtaggga tggaagccct gcacgttgtg gttctgcca cgtccgaagc 420
cactgccacc agcgggggga cccctgagc ccggaacaga ggggccccca taggagggcg 480
gctgctggct ggggtctgaa 500

<210> 876
<211> 631

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170673

<400> 876
aagaaattta ataaatattc caaataaata tataataaaa ctatgaaata aaaataccaa 60
gaatgggcaa ctaattgcat gaggctcata cagaagcggg tgagtgaagt tcagtcagag 120
ttctttatga ctcaggagcc aagaaaccac ctctcttttg ctgctgctgc tgctgctgct 180
gttagttctt tgccgacatc ttatctagca gggtgacctt tcagaatgct gaaccaatcc 240
tcccacccat tcccaggcca atccttatgt gaacgcctac cgaagtctac tcccggttct 300
ctacaaagggt gagcagtcca ggcagcaacc ttctgtgccc ttaccccacc acctttcctt 360
ggcttaacca ctaccacag cctactatit catatcagac atagttaact actttttatt 420
tcattgggga aaaaaaagtc tgcataaaga accgaactgt ggttcccttg aggaaaatgt 480
tggtgtcggg tgtggtggca cagcctctt taatcacatc tgataagtat gcacgcaccg 540
tggtgtcag gttggtcaag tctacatag gagttgcaag gaaaaaaaac gaaccttcaa 600
aacattttac cactgcttga gtgaaacctg a 631

<210> 877
<211> 671
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170679

<220>
<221> unsure
<222> (1)..(671)
<223> n = a or c or g or t

<400> 877
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gaggacctaa tttctaggct tttcatccaa gaaggaaagt attgctttgt ttaggctttc 180
cttagactaa aagctcattg cagaaaacta ctttaaaaat caatagtgcga gagtacaaca 240
tagtaaataa agtacctgct tgctttataa tctgaggaca ttttattgta aaactcttta 300
gcccataatt agtagaaagt gtagctgaca gtgctcattt cagtgggtcca ggatccgaag 360
gttcccagat acaatcttgt tctctaacac tgctcctggg gggatgtcaa ttctgtcacc 420
atgatttgca atgatgataa ctgttccctt taatgaaaca ttttttccaa atgttacatc 480
tctgaaacc gtgaggtggt ccagttccaa catatcgggt atactttcaa accttcttag 540
ataatcttga accttggtta aagaactgcc taatttaacc aaaggtagtg tangaaattc 600
acgcttttca ctcatggtca aagatcctgc gttaaggctg tanagggttg acatcacaaag 660
taagagatct g 671

<210> 878
<211> 450
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170696

<400> 878
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acacacaaga gtatggtctg tgtggggtcc agttttgaat tacattccac cacggcatct 120
tcatgaggtg cttggtctcc taccaccagc atcacggggc acttgagggt catctcacca 180

cctcgcgtcaa agttcaggtc tcggcggttg ttgtaactgt tccaatacag ttcgatgttc 240
 tccaggttgg gcgcgtgtgt gatgagactt ctatacttct gtatcaattc agaatttcca 300
 gaaagctctt cctggctgaa aaggtgccca agaatcatct ccggaatgga agacgtaagg 360
 ccggttaact tgtgggctgc ccaatccatc cagcccttgg cgttggggatc aatgttgatg 420
 agaacaagac cttcaacggt gttccgggtg 450

<210> 879
 <211> 440
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI170709

<400> 879
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 tacactgtgg ctaaaaacttg tatcttcaac ctttgaaaaa gccacattc tatcacagtg 180
 atgtatggtt aaacacttgg atcaagtcac aaccagtttt attgcaaaag gaccctgtac 240
 acatttatca attctagtac cttaatagct acccaacaag tcattaacat acagaaacat 300
 gcatcatgag aagcaagaag tatcacccat cccttctgca tattagcaac ttgtcactcc 360
 tgagccacag tgctcacatc actgaggtct gtgaacagtc actctttcca ttcaccctga 420
 gtgaaagatg gaatgactta 440

<210> 880
 <211> 712
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI170751

<400> 880
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 ttaatacaat gtatatgaaa taatctaaaa tttacaagac aggaaacata tgattatttt 180
 tttttctcct aaagttgaaa agcttggaat gtatgtccaa cagtgaggta aaacattttg 240
 tctttcaatt taaagaattg tgcaaggata acattcaaac acattctatt agggcacttg 300
 tcaaatttga cacaataact gaatgactgt agccaaagag acagggtcag aaaatgccaa 360
 catctcaagt gtgataagaa caaggcagat aatatgcaaa atagcctttt aaaaaagttt 420
 tctttgtgaa cattttcttt gaggacagag ggcagtttgc ttcaggtgac tggaatttct 480
 tgtgtcaggg atgcagttga tgtacagaga agcatcaggg catcagaaaag ccattcactc 540
 attcctacgt acggcaaagg gcacagagaa ggccaataga aagccattca ctcattocta 600
 cgtacggcaa agggcacaga gaaggtcaat agaacacttt attgtattgt tcctttgtaa 660
 tggcaatata tatatagtta tatatccata gcacatatac agatctgtga ta 712

<210> 881
 <211> 721
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI170752

<400> 881
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 cagaatctag ttaaagagag ccaattcctg tagctttggg gttttacaca cagggcaca 180

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gacttcaaca atcacatgaa gctaaactgac actgattaca gtgaaagcct gacagtaaag 240
tgacaactca ggatgatgga atctgggaag gataagcgga tggggaagaa cttcacaggg 300
gcttctgaga ctgcgagtgt ctccactcca gtatgaatgc tggatgttcc tttctagata 360
gtaactatac agtctatgca tttttctaaa aatatatttc caaacctgga aaagggttaa 420
aaaaatggga tgaagtatat aaaaacattht ttgaaggaaa atcattacat aagattgtgt 480
gtgtgtgtgt gtgtgtgtgt gtgtgtaacg gtttgcttgg taagatttaa ggggactttt 540
gctaaagaag tcatacaccg aggtcaggct ccagaagtgt cctctgagct agtcatctta 600
gttttccatg agagagttct gatacaacca ccaattctta acacattagg taatatgttt 660
ttctaaacaa tttctatagg ttttatacga catgccatgg tgtgccaca catattctgc 720
a 721

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<210> 882
<211> 671
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AI170763

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<400> 882
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cactacaata ccacagcatg ctggttcaac tgctaagtht acctttcact tagcagagta 180
agattggtht gatatgtgac aaaccaaggc acggaccgtht tgggaaactt tctgcagcat 240
cacacaggaa cgaagcgtht cacctaagag ttcttcagtc aaatggccat tatccttttc 300
cagtctaatt actgtggctg ggataaggta aaatacacct cctagacttht cacatagacc 360
atgccaacaa cagcaccagc ctttcatcaa cagtcctcag tataagcact gtaccctaag 420
gattttctga ggtggatggt gaccctattg ttgataacct aatatggctc tattttaaat 480
cttccctctt tctttcctcc ctccctcccc tcttatactc cttccttctc ttcttgatgg 540
tttaagggat agaactcaag gccttgacca tgctaagcaa gctgtgtcac caagtacagc 600
tctaagcttht tttccccctt gaaaaatttc ataaatatgc ccagtaattt tcattttgaa 660
aatgtaaaact a 671

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<210> 883
<211> 618
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AI170770

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<400> 883
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acacaaaggc ctgcctcgat gaagcagctg acaggcaagg gagctcacag gctgtgcttht 180
tgctcatcgg tctattttctc caaatacaat atcctgggtg cctatgatgg ctacgacatc 240
tgccagcatg tgtcctthtag acatcttgtht caaacctgtht aggtgggcaa aaccgggagc 300
cttgatctta caccgataag gtcggctgct gccatcagat accaagtaca ccccaaactc 360
gcccttagga gcttcaatgg cgggtgatgt ggctcctgga ggaacttggt agccctcagt 420
atacagctta aagtgatgaa ttagtgactc catggacgtht ttcattctctg ctcgthtagg 480
tggggacact ttggcgthcat caaccttgat ctcccccgtht ggcatcttht tcagacactg 540
ttcgatgatt cgaagggact ggcgcatctc ttccacacga cacagatacc tatcgtagca 600
gtccccctga gaaccaat 618

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<210> 884
<211> 585
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AI170773

<220>
<221> unsure
<222> (1)..(585)
<223> n = a or c or g or t

<400> 884
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agagtgattt cagaaaataa aaaaggaccc tagaggcagg cggtagtgcc cctccccccg 180
caaagacaca ccaaatttca agactttata tatatatctc tgtgccctgg ggggaggaga 240
gagacacttg gcagcatcct ggaggggggc cccaggcagc cccaagccat cctgcctcat 300
cagccacttt attagctcaa gacacatcgc actacaggca cccactgccca ctgccgccac 360
agccgcgcgc gccccctgc agtcaggcg gctggctggc tgggccatcc acgtgtccat 420
ggctccaagt cccctgcccc acccgccatc agttgtgatc agactcctcg tcctcagcct 480
cacgaagcca attgaagaat gctgtgacag atttaagggc cacacccttg ccctgctgtt 540
cagcagggtc cttgctgctc tcccagctgt anaaggcgtc ttcct 585

<210> 885
<211> 629
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170795

<400> 885
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agatcacaga gaagtcacatc aggtcaattt aagtatggtc acatttcttg gattatgtca 120
ttgctatcag agacacattg aattcaaaat attttagatg caatttgaca aacaaaacaa 180
gcaacgccaa aaaccttatg gtgagatttt aaaacagAAC attctttaat ttcctcccaa 240
gttactaagc agtctgatga cttcatttta ggaccacaac gtgatcactg cctctagtct 300
gcaggggaga tggatttcct cattgaaaca agaaaaacag ctcccttcca tgtgtgaaaa 360
actgttttct gtttgtttgt tttgtccatt ttgtttactt actttttaag attctttcta 420
ctggaataata actatgctta cttgctgatg tgtccgttca ggtctgagaa agaagaaaat 480
ctacaaatgg tccaaagatg aaaactttac tcaagtctta gatctgcttg agtttcttct 540
aacttgcaaa tatcaaaatg aaaaatttag ttaaagcacc tgattcatgt ggagaaagta 600
atgaactgta ttttgatgct aacatatta 629

<210> 886
<211> 662
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170820

<400> 886
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attcctgcat aagttatatt tcagacatcg atcaggatcat tgcctctggg aggacaaaca 120
atgatagtct cgacagaaca cgcagctcat tagcacagac tcagatttgc tcgtcggttac 180
tatctttgcc accaacttcc tgctaacagt cacgttttga catgggtcact gctctattga 240
gaagttcaat tttgtgataa tttacttttt tcaaagaaat agaattccaaa ttcttgtttc 300
atattttgtt ttataagcag atttttgcaa atttttttaa atgtaaaact gtgacagtct 360
ccagagaaac tgagtgttac aacttgGCC gagagagctg ctgtacagtg acaagaagcc 420

atgaacctac tctaaagtac aaacacgcac agcctcagcc agcctgccag tgcctccaag 480
acactcctgg ggagggcagt gctgggacgc ttccgtctgc tggctactct acccagagca 540
agggcactct cctgcctcgg aacgctgggtg ccagtctctg ccgcagacac acacctggaa 600
tggactctgt gagcgagtag cctatcgacc aagctacttc atctccactt gataatttaa 660
ta 662

<210> 887
<211> 641
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170821

<400> 887
agttatatat aaagtattta ttttatgcac atatttacta caaatttaca gaaaatgaaa 60
caatgcagga catacagaat cccctcttag agagttcttt gaagcagggg gtttattgct 120
gcagttcaga gaacacaatc ttagacacag gacagtcaag atgagtccac gttagttaaa 180
gggcagcttt gttaaatggt tttgttctat tattcaaatt taatggtgga tggaatttaa 240
aatggtgctc atgaaataat ttaacctttt caaaatcttc taataaacag gtaaaaggca 300
cctctagtac tttaagcatt tacagcaatc ccaacagttc catttcaatt ccattgctcc 360
tgtagcaaac gtggctggtg tgcatacaca gtgccaccag cactctccag cagggagagc 420
tgcaggctcg ctctggtttg tgggtgtgggt ctgtgttact ggtgatggac tgggcccacc 480
actagtacag cactagtgtg acacgtctac cacagcataa aacccatcca gtcacctaca 540
ataaggactg tcaaattccc acacaataca tcattgttta acttgtacat tcagaagact 600
ttgggggtgt ttttaatttt ttttaaaaaa gtaatttagt a 641

<210> 888
<211> 426
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170967

<400> 888
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gcttttttcta gaaaagcaca taggtgtaaa taaaaccgag cacacccatg agaaaaggca 120
gtacctcagc agctccttaa gcaccttaga ggcattgaacc cctttcaaca tacgcttctt 180
cacgggacag acacacccaa agttcataat gattgtgaat ggcattcctaa cggctcgcac 240
gccaacaatg gtgaatcagg cagacattac aaaactcagt ttccaaccgc gtcaggcgctc 300
cacaatgagg cgaaagcagt gaaggcgggt ggcaactgtt cccagcagcc acgctgaatc 360
tcagtttctg gacaatactg gtaggtaata gtctgaagat gctctaaaag caccgatcct 420
caccct 426

<210> 889
<211> 602
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI171088

<400> 889
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gtataggcgt ggggctgaac gccacagaga tagacagaca cagagactga gtccacccag 120
cagggcaggg caggcagcat tctggggcct gtaacacttg gttggtgggc aagagtcac 180
tgggagctctg gtccaggact ggtggtccca gacagcttgg aagctccttg gtccaatcca 240

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<210> 890

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171094

<400> 890

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 aaggacagca aatgaatgga accataaatt atcatcccgg gtaaaactaat ccagactcta 180
 aaaggatatgc atggtatgaa ctctgtttta gaggatttta gccacaatgt acaatggtac 240
 aatccacaga cccaacagg ctaaattaca aggaggacac aaggcacgat gcttgaaatc 300
 ccaactcacag ggggaagtaa gtcttcacag gcagattgag ggaggcaact gtgtttctta 360
 ccagtttgta tccttttatg tcttacgctg tgactattcc acacaaagggt gttaccacat 420
 tggtcacatt cacagggtcc ttctccagta tgtgttcttc aatgtatttg gagactatgg 480
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<210> 891

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171095

<400> 891

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 tgctgtgtcc tcattgctgg ccaattcca gcatgctagg ccgacttcca agcttctctc 180
 tgtgtcctgc acagctgagc ttgaagcccc tgaggcctga catagggttaa acatcgaggc 240
 cccattcct cctcaccatt agatttgta gttccaaggg ccagtgtggc gccacagaaa 300
 atccactgtc agttcctggt ctggtgagcc ttggggaggc gtttctgtag aagatcccaa 360
 gccttttcca cctggcgctg tgtgacatgt gattcccaca aggtgcacag aaccacgtgg 420
 ctctgctcta ccagctgctg ccactcatc tggttctgca accggctttg agcggtgcc 480
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<210> 892

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171229

<400> 892

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 tctgaaccac tctatatgct cgaccttctg tctaacgctc agatatgggt ttttcgagag 180

gccacaggtc accagctcca tgaacaggcg aattgggtcct tgcttgggga aatcctccag 240
 gtgcttctcc aaaaatatat gctcatggaa ctctgagcca tcatcgtcaa gacctgttc 300
 attgttaact gggaactccc agagagaagg tgctgcttct ggttcagggtg cttcgtcgtc 360
 aaacgcctta acatcaaaaa tcgaaagtct tttccccttg aacaaacatt tcctccttct 420
 gaaatcagct ggcttctcct ggctaagcga actgtccact tcttcgtcaa actgaatctg 480
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<210> 893

<211> 575

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171231

<400> 893

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 catttacact atatacatat aaggagtcca cgtgacttcc attgaaatca catgacaagt 180
 taccagatag ccgcgttgta cctactgcat tttgaaaatt tagacacctc atttaaagct 240
 tttagtttga tatctgaact tgcgttgatg accaaccagt ctattgcaca tacaattaaa 300
 acaagttatt ttcaatttta gtattataca caatgtcaat attgaatcct atgtacaagt 360
 aatccgggga cctatatata atgtgaatcc atcaaaatgc agttaagaaa atttaggggg 420
 aatatatacg cttgaacca agaccaatt ccaacatgtt atacagctta ttacaaaata 480
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<210> 894

<211> 588

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171262

<400> 894

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 acataatata gaatacacaa taaattatat ttacatgcac tgaccagatt atcacacaca 180
 aggtaaaaaa atacagtatt ttatgtacat tcttaaagat ttacattttc acataggttt 240
 ataaagttaa aaattctctg tacaaaatct tccgtgtaca gagtgtacac atcttcgtcc 300
 ttatggctgt atcgccacac agaactgctt taaactagca ctacaacact ggagggtca 360
 cttcatattc acatcttggc acccatgtac aacacatcat gaaatgtgaa ttataaaaaca 420
 attagaaaagt aatcatgcag ctatcttaat acaagaaagt gagatgagct gatcagcact 480
 tatcacctcc atttctgttc gtatctgtgc cacttctgc tgtgtatgcc tattccactt 540
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<210> 895

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171263

<400> 895

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gaccaggac gcaaagcacc ccctctgctt gaaacggcag catgagggtc aggtcaaggt 360
cttccaaatc cgggacacgt cagtccgttt ccaaacttct gagttatggc tctgcagcag 420
gttttagcata ttaaattccca agtggttctaa ctccctctat ttcaagtaac aatgaactct 480
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<210> 899
<211> 632
<212> DNA
<213> Rattus norvegicus

<220> .
<223> Genbank Accession No. AI171370

<400> 899
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acttccagag tggagtaaca tctgtgtgct actatgtctg gctctgattg gatccttcag 180
ctatctttga gtatcaggaa atttttctgc aaagagcttg gaaacaagca attttcaaac 240
aaagccagca gagggggttt caaaacagca tgcactgtct taaaatgtgc tcacagggac 300
agaataacag atacgattcc atgtgaagcc tctaacagta tatgttcac ttacacgtgt 360
ttggaaagaa tacagttaca tgaatctgta agaaaaatca caagtggaaa tgaaaatcat 420
ttccaagcta tattaggcag aatacttcca cattaatata tattgatatt atcaaacagt 480
agcagctcat tgtatgattt atatttcaat cccacaatac ttttggtcat ttgacctgtg 540
gtatacttgc ctggggagct tttaaaatca aaatatatta attagatctt aatggaagaa 600
aaaccattta catgatttaa aggaaatcac ct 632

<210> 900
<211> 496
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI171506

<400> 900
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tgaaaacata aactgccaca gtaagtgaac caaacctgtc taggggtgaag ttcatcctaa 180
cttactactaa tctactccca tgagtctgtg ggctaaacaa aaatcacctt attctaagcg 240
tactgtgaat catcacaaaa gattctgact cttaaaaatc atgaaaactt caagatctta 300
ttaataaagt taaaaattct agctgttggt ttactgattg actttggtct gtattttctg 360
gactttcttca ggccacgaat aacaatcagg taggatctgg tcataattag tgctgtacat 420
ctgggaggag acaaattctt ctttggtttg gggttcaaga taaacagtgg ccactttttc 480
tttgtatgca tcttgc 496

<210> 901
<211> 495
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI171583

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<221> unsure
<222> (1)..(495)
<223> n = a or c or g or t

[illegible]

<221> unsure

<223> n = a or c or g or t

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| agatcacaa | caagttcaca | aatacacata | cacagcagtc | ttctcattcc | cttgtcttcc | 120 |
| aatggagaaa | ctgggtggcg | gcagcatcgc | accatggatg | ccaggagctc | ttctgccagc | 180 |
| tctagcttca | agtcggggcc | ctggggcaca | gtcctaacac | agcatggcca | catgtgcaaa | 240 |
| ggcatcctca | atacaataac | cacgcctggc | gttcaaaccc | agacgttgct | actaaccatt | 300 |
| gtgaggggat | gacgtggagc | tggactgcat | actgaggcgg | tgaggcctgg | ccagtcggcc | 360 |
| tccttctggg | ctccagatga | tgcagggtcc | tacctgccc | cacagaactg | catgtccctg | 420 |
| cactgataga | gaatggagac | accttgacct | aaatacgaga | cctgtttcgt | ccaacactgg | 480 |
| aattggcttt | acactttctt | acatccaaca | gaccaatcac | attctcgtgc | ttcatgtgct | 540 |
| tcagcagccg | cagctccctg | taggtccttt | tggcgtgaat | gatggactga | aacggtctcg | 600 |
| acagcttctt | cactgcacaca | cgatgtcccg | tctntgtatc | aaaagcagca | cacaccgagc | 660 |
| cgtaggctcc | cgaqcccacc | ggggacaggt | tctggtatcg | ctcqqqca | | 708 |

<211> 617

<213> Rattus norvegicus

<223> Genbank Accession No. AI171646

| | | | | | | |
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| gttaaaattt | ttatatataa | aagtggcatg | aacttttcat | gtagaacaaa | aatttaggga | 60 |
| aggcaaaact | ggataaaaacc | attaaaactg | aaatacagtg | cttcaagtga | atcccatcac | 120 |
| ctggtgatgc | tataagcagt | ctctaagcca | acaccagata | ctagaaccac | caatcttaaa | 180 |
| aaaaaaaaa | aacaaaaaaaa | caaagaaagc | agcagtctag | ggcctccaaa | gcacttcatg | 240 |
| caagaataac | tgcttgtaaa | gcaacgggac | ctgctccttc | tctaagctcc | cccttctgaa | 300 |
| gcaggataac | cccttttgca | gggtaagtaa | tcacagcact | gaaacagagt | gcctctcggc | 360 |
| atctagtgt | atcccaaaga | atggcatgaa | ggcaaacc | gcattgcctg | cgactgcaat | 420 |
| gctgcccttg | gaggctgact | aaaatggagt | taaaagtttt | aaagtgtgca | ccacattgcc | 480 |
| agcaatggga | tgtgtcataa | tatcagatgt | cagaagagtt | aagctaatat | ttctctttaa | 540 |
| agcacatctg | aaatagaaaa | atctttaata | tacaccattt | gtaaacaaaa | ttgcacttga | 600 |
| ttttgaatcc | tcqtqcc | | | | | 617 |

<211> 684

<213> Rattus norvegicus

<223> Genbank Accession No. AI171652

| | | | | | | |
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| ggccataaca | aacaaacaac | atgagggttta | atcaagcaca | ggagaaaaaaa | cgatacattc | 60 |
| aacagatgtg | gtatacagaa | gatgaggctg | ctgctggctt | gttggtgaaa | caccatgtga | 120 |
| gtatactctc | ctatgaaagg | taagtaggaa | aatgacttgg | aatattctga | tctgtcttca | 180 |
| tacaggaata | ttgatggaga | gcaaaagagc | ataatcaaag | gcagcagtc | actctgaatg | 240 |
| gaacctgtgt | cctctggctg | taggccagca | agtacgactg | ccatcttctc | gcttaagaac | 300 |
| aagctcagc | agtcctacgg | aaataggcac | ttacacaaaa | gttttttaaaa | caggagtttt | 360 |
| tgacacttga | aggatttcat | tccaaactct | caattatata | attacaaaaa | aatccatggt | 420 |

tcacgaaaat atcctaacc taacataaaa ttcagatcac ttaccacaaa gttagacaaa 480
 tgtataagga aacagaacag aaagcatatt tacaaattta gactacatga gacattgtga 540
 agaatcttta acaacactct acgtactttt acaaacacaca tttaaaatga ggaatctgta 600
 aatgatgtga gaaagggtcat agcgtgagaa ctctaacttt taaagtccaa agttatgttg 660
 aagatttttaa aagtaatgat gaaa 684

<210> 907
 <211> 502
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI171674

<400> 907
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 agtcttttgca aacctctaca gaggtcaaag gtttcattca tccgtacaaa attagttaca 120
 aattttatttt tggcaatttc atcttagtaa cccgttttat cctattgcca ttgtcccaac 180
 cattgaaaaa gtttacaata atttacatag aaatatcttc aaagtgttta agaatagtga 240
 ttgttctctg ggatatgtac aggtggccta tacagtatat gtacaggtgg gagtactat 300
 agcacaaggt tcattgctgg aatatggctt tctagggaaa gtgcatattt ggccagagat 360
 ggcaatactg tctagggatt caagggttac agatacttgg taaccacatc caaagctgaa 420
 gtagaacgtg gccaagaata tttacaaaag taatataaaa atgatcaagt acacaagctt 480
 gatccacgaa aagatatctt ga 502

<210> 908
 <211> 508
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI171684

<220>
 <221> unsure
 <222> (1)..(508)
 <223> n = a or c or g or t

<400> 908
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 tcaccgctga cccatcatca gagacagggc ccagatgatg aggggtgatg tgatgggtgat 180
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 ctggaggggg agggctgtgc ttcagataat acgtggtgaa caggaaaacc agagaggaag 360
 gaatttcacg atcaaccgtt caataagaag gagaaagtaa gacctaacag tagcttcaag 420
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 cgcgggcgtt cggngtagac tcggtca 508

<210> 909
 <211> 452
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI171692

<400> 909

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 caccctttcc tgccccaggc agagaggcca gaaacaatca aaaccctaca ggcaacctac 180
 agaggagtag gctgagaccc agaactggcc cccaacccaa tagtccagat ggacactggg 240
 aaaggatggc ttcaaccccc aagacatggc ctcttttctg gaaacatgcg cagtcacaca 300
 gctgggccct tcagtgccat ccctgtgcta aggcatactg gaggcctgtg ttcgaggtgg 360
 ggctgagggc agccttctca gggttggagc tctttccact tgcgcagtct ctaatccatg 420
 gcctggaatg tggccttgct cttgacaaaa ca 452

<210> 910

<211> 471

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171726

<400> 910

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 cttgccccat ggccctgcgc ctccctggcc aaacccaaaa ataaatatag tgttattgct 180
 ctgcagggcg tagaggcagt gctgtccccc atcccttgag gtgggagctg atagggggcc 240
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 cccctctgct ctggagagga ggtcggagta agcagcagca aaagcatcac ccactgggag 420
 actgtggtct ccatccctt ccctccctga gatcagtttt tgctcctac a 471

<210> 911

<211> 431

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171727

<400> 911

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 aatcacctcg aactgctcga tgggtgtacc agcctcttcc acggcatctc gaacagctc 180
 ccgggtccagg gaaaggctgg aaaacttctg ttccccaatc atgtagtagc tactcttaag 240
 agcgtccacc atcaccagga agcccttggt cttgagcagg ctgcccagggt tcttgagggc 300
 agtgcgatag gccgggagggt cagggcaggc agcatccagg cacagtgtgc tgagcaggca 360
 gtcggcagga ggcagagaga cccacccag aggctggctc tggctcacat cgcacttcag 420
 cacctgcttg a 431

<210> 912

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171745

<400> 912

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 aagactacac ttggtatttt cccttggttc tgttattctt gaaacttgta aagattcaaa 180
 atactgtaga gcttggtgaa cagcaacata aatgagacaa tgtactcaga ggtcagttctc 240

tcacaaaaaa tacgttatat ccaagttctg ttagggcgcc agccagtaag gcccataaag 300
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 gtgatccatg tcgggggtcg aagccagact tacaccgtcc agccattttc acaatcagca 480
 tgacgagaag gatagtgtca aatatccaga ctggaataaa tatgaggaac cagttccagg 540
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<210> 913

<211> 667

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171772

<400> 913

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 aattaaaaaa ataaaaaggta caacttgctc tctcaagtct taggatttta gcttctgtca 180
 aaatgtcaat acatgaacaa actaccccag caggaacaca gagcgtgcgg tgagccagcc 240
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 ttcattctga agttacagtt ttatcaatac aatctgcttc taatgaaatc ttagtataat 420
 cctaaaagca tgcatttata tacagtaatt tctacattcc taaataaatt acatacatga 480
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 cagatgc 667

<210> 914

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171795

<400> 914

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 cactgcatgg taaaaacagc ttcattcatt tacaaaaaat attcctttga aactcataac 180
 agtgcctgga aatttttgac ataagctttt tgcaaagaat attttaaaaa atgtaaagat 240
 tcgattaacc aattagtgca gtattaggaa agataataaa cattattagt aaagagggtta 300
 cagtgattta taccagggtt agacagggtt caatgtagtc tcattaaata aatgttcagt 360
 taagaaaata gttttgaaaa aaatcttata ttgaagccat gttttaattt tgttgaatca 420
 gcttatataa atcaagtcaa gtttattcag tttaaagaaa taggactatg ctttcttata 480
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<210> 915

<211> 653

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171948

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ggagggtgac tcagccaggc ttctgtcttc tgcagcaata atgaagggcc tcctgcactg 180
agcaggactc gatctcactt cgtagtgcac ttccgtcaca agaaggggtct cttgtgtaaa 240
gcaagccaac ttgtatttgt aactagtgc taaaacacat gtctgctcac cctttcttct 300
agcgaatttc aagtaaaaac aaggttgaag gagggacttt tgtcttggat ggatgcagggt 360
ctgtttgagt tgctatactt aactaagtgc ctacaggtag tacggttcac aacttagttt 420
gcttttgctg tgttcattga tttggccgtg ttctgtggatt ttggaggagc atatggtata 480
gtattocacc cacaggataa ggctactgaa tgtgctatct gcaaaagagc tcacgtaata 540
ggaaccaacc caacagggtc accagaaaga aaggtgacga aatttctctg gacaaaatgc 600
caatcaaggc agagctatgc tgggagaata gtttacgaaa acacacatgg gtt 653

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<210> 916

<211> 589

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI171990

<400> 916

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acacagagta gacattacac atgaagaatc aggagggtac actgctggaa ttaggctgctg 180
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ctcagaaccg ttacggcatg cgagtcactt cggagtcctc ggtccacact cctctgtgtt 300
tggcactctc aggcctctgg acctggcctg aactcttcag ggctcccagt cactggcctg 360
tctctgaaaa gagtggggag gttggaggcc aggcctctct ccctaccgtg cctccctttt 420
tcacagtcag cactccaaac agtgggttct gctccctctg gggcaccag accctcagct 480
ccattgtccc cacaggagct cgctgggaca cccagaccgg agtcattgct gaagcaaagc 540
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<210> 917

<211> 647

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI172041

<400> 917

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taataagtta tattcatatc tgagattggt taagctttct catggagaaa aagaaaccag 180
gcagcagcta gagctgcaac ccaagttttc ttctgctcat ccttaggcac ttgtactgtg 240
tggaccgagt gactggggcc aggtcttctt tctatgaaac agagtcttac tgtgcagccc 300
tcgctggcct agaactcact gtgtagaccg gctgctgcct cctaagatct gagactgaag 360
gtgtggactg cgggtggcctg gctgcccagc tgcccagcct ctaagttaag gggtgtggtc 420
tttcacccac tgctcgatcc actttgagat ttgggtgata ttgtcctcta gctgctctgg 480
ctcgttactg ggcagctgat gcacaatttc ttctttgtaa gatgccatgg cttcttcata 540
gagaacttga aaaatctcac actgaatatt atctttagt ttcttctcgt gataacccct 600
tgtttcaagt cgtttgtaca atataaccatt gtctgtcctt aacacga 647

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<210> 918

<211> 647

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI172056

<400> 918

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ttttttccct gagagacgtg taagacaaac agaatttgct gagagccatc tttccaaaca 240
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aaaagaaata catatttggt ttattgacac caggcttaaa cttgtgttaa acaagtaaag 420
cctgtgaata gcaccgtggt aaagattagt ctgctttccc aaagcatttt acaatttagt 480
aagtcaacag gggatcaaat gtcttacatc tacctgtgat ccttaaatac agaaacagat 540
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cacaactggc tctgcatata cactagaact gatcatgaca aagttttt 647
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<210> 919

<211> 660

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172057

<400> 919

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ctatagccta agagccttta gcaagtgacc gatcaatcac aacattacta tgatgctcat 180
tatttaccag gtaaacctga aataaatcaa caaaataaaa caaggacaaa atccaagatc 240
tgccaaacga cgactgtggt tagtaatggg aaaaacactg aatctgagcc ggtccatctg 300
aattcttgct tttgtccttg gatggatgat ctgagaggac agccttggtt aagtctttca 360
gtttaaattg acagagctgc ttttatgggt gtgtacagtc tttttctaac aacgcaaact 420
tggcaaccaa ttcgacctgc atataccata taactcctgt gccctgtgtc atctcagtcc 480
tcaaattaac aaacatcgtg tggttcctta ccagacacaa actcgagaga catgggtttca 540
tgacagatta caaagtcacg gaagtccgaa gaaatatgag ttgacctcag acatccttct 600
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<210> 920

<211> 630

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172075

<400> 920

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cacatcttgt gctggacctg gcataggaca cctccctcca ccagggccat aaaggccaag 180
gccaggagtg agcaagtgcc ctggtgaaga ggggtaagtg ccaggctccc tcctagccct 240
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gggttgctcc tggatggcag agtggacagg agtaaaactg caagacagca ggtcctcctg 360
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agcctttgct ttgtttgctg gagtggggat tctgcaaagg acagctcact ctgaacacaa 480
agtagccata ggacactttc ctatattcag tgtggcaagg gacaactgga gggtgctact 540
gactoctgtt aaggcacttg taacagaaca taggtgcaca ggcagcagaa ggttaatcat 600
cacgggagat cagtggcagt ggtgctggct 630
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<210> 921
 <211> 585
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI172107

<400> 921
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 aaaaaagtcg gctgcagcca gggtctctag tgtcagccat ttttcaaaga ttgtagttgg 180
 ggttcttttcg aagaatgaca aagccttcca gaattggggt gacagggaga aactcctcag 240
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 ccgtgatcgt tttgggcttc ccagcctggc ccaccacatc cactgcctga cccacgcgga 360
 cagaaactgg caatggctgc aactcctcat caaatgtaac cagcatccga ggctgcatgg 420
 cggccaccag cccatacagt acatagttag atttccctag aatgatgttt cgcacatcca 480
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 cactgtggta ggggcagagg gtaagtgtgc ctttccttaa atgtg 585

<210> 922
 <211> 696
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI172189

<400> 922
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 acagattatc aaatataata gagaatgcaa tttagtgtt tttgtcacia tatcaaaaat 180
 aagcaatttt ctcaaagtta tcaaaagtgc cccactcaaa atctttttct taatcaagta 240
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 cacagagaaa ccctgtcttg aaaaacaaaa caaaacaaaa aaaaaaaagg aaaaaggga 360
 aaaaaggaaa actttatata ttggatgtca ttttaagtgt taaccaagca aacatgcta 420
 acacagacag ctacattct tggatgaaa gtcacaccac agaatatgaa tgttataaca 480
 cgacttgat gtacaaata aagcaaataa aacctatcat ttagtatgtc tgcttgtttg 540
 cttttggtca actagtcggc agacttaacg ttgtactgct tcaactcagt agtctacctc 600
 gtgaggtag gttctgtggt tcacgtcaat tgtgggacga cagtcctcat gagagctgag 660
 cgtttttgca ggaaaacagc tttcatttcc aataca 696

<210> 923
 <211> 607
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI172274

<400> 923
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 gaatccggct ccggacacta agtcagataa acctggctgg atttattctg tgagaggaaa 180
 tgaaggcgac cttcactgtt ccattccacag tgatcagagc caatgacaca gacccaaaat 240
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 atggaaaagt gcagtgggta tcatggtcag caccttggtt ctaggtacca tgccaatcac 360
 actgttcttg tgaagaaact gaagagcctg ctgcaaaact ctcctctgga tcctttatgg 420


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agaccaaagg gttcccatat atcttcatcc agcccacccc agagatatga ttacaaactg 120
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cctgggtctct gtttgggtcct aagaatcaat ccagcaccac aatacacttt attcctttca 240
atctcattct ctgggacact cagtgggtgg ggaagctggt gacctcacta ttgagctggg 300
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ttctagggttt taagaacctt acttaaaggc tgacttgccc cctctgtgtg cttatcaata 540
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attcatctgt gatgaaagat ggccccacgt tctttatagt tcctcccatt gagagctggg 660
tccacttgca cccctggaat ctaaggaatg aactgaccag tggagacaca gtcctagcac 720
cgggggcttga
730

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<210> 927

<211> 624

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172328

<400> 927

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actggcaaga atcttacatg tataacaggg agttgggtag ataacatcaa atacatccac 120
aacaaaatta ttcttttgag cgggggtctc ctgtagcctg agttgggtgca gaacttctga 180
ctttattttcc aaagtgctag gcttacaggc aggaatcgcc atgccttatt taggagaaaa 240
ccattataaaa atttcaaaga acacttgagg aacaaggtag acaacaatgc ttattatgta 300
attttgtatc actgtaacga aaacatcttg ttcagtggat ttaaaaagac ctgctttaag 360
tgtattcact caatgcaaaa aaaaattaaa taaaatttac agtattataa tttgaatagg 420
tgccaaatgt cctgttctct ttctccaatc aggaagagaa aattcttttc caaatcactt 480
gaagcttgga caaccccccc ccccccaac attctgtagc atcccaggca gacttcagcc 540
cttcagagag gacatcccag ctctcatgat ctcgtcaacc aggagaaatgt tgggtggcgat 600
cacagtacag gagtgaagca gctg
624

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<210> 928

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172405

<400> 928

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cctattgatg gtagtattcc atttataaag ttttatacat cagaaagctt tgaatttgac 180
caggctgtcc attaatcatc tctgaaaaag tggcatttca ttttagctct attttacagc 240
attaaaaagc ttatgcatca ggtcgcttcc cgaaacattg ttctctgcac aatggcgctg 300
ggcagacagc tcttcatcca ccaggtcag agtcacgtct gagagtttct gctacatacc 360
cgtgacagcc cacctcaccg actgctcacc ctgacagaca gccacacctc tcggtcagtt 420
cacactgcc agttcacacca gcagttgtcc tttgtagatg gcattagagt atcaggtcag 480
tgacagtggg agcaggtgct gccatgagat ccaggtaact aaaggccctt attttttttt 540
tttaaaaaaa tgccaaatgt gagataa
567

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<210> 929

<211> 651

<212> DNA

<213> Rattus norvegicus

Figure 1 consists of 12 line graphs arranged in two columns of six. Each graph shows the plasma concentration (ng/ml) of a specific drug or metabolite over a 120-minute period. The x-axis for all graphs is 'Time (min)' ranging from 0 to 120. The y-axis is 'Concentration (ng/ml)' with varying scales for each graph. The graphs are labeled (a) through (l). The data shows that concentrations for most substances increase over time, with some reaching a peak around 60 minutes before slightly declining or stabilizing. The substances include morphine, morphine-6-glucuronide, morphine-3-glucuronide, morphine-3-O-methylglucuronide, and morphine-3-O-methylglucuronide.

<223> Genbank Accession No. AI172417

<400> 929

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| acatgtgtat | atattttaaat | ctttctgcaa | ttaaagtttt | aaagtagtag | aaatagtagc | 60 |
| ctaatacatc | tgataaatatt | gttaaggggt | acttggggtg | attaattaag | tttatcacia | 120 |
| ttataaatca | tgcttgctcc | agttctacaa | ggaccccacc | acagtctttg | ggatggagga | 180 |
| aaatcacggg | ttcccatgt | gcccctat | tggcctcatc | actcagactg | cggatcttct | 240 |
| gtttcttcag | atccatcaca | gctgcattta | tgttgtccac | ctcgatgcag | acgtgatgca | 300 |
| ttcctccagc | cttgttcttc | tgcaggaagc | ctgcgatcgg | actatcactc | cccagtggtg | 360 |
| gaagcagttc | catcttcgta | tttcccaggt | tgacaaaaac | cacagatact | ccatgtttcg | 420 |
| gaagagggac | cgccctcact | acctgggccc | ctagaacatc | cctgtaaaat | gacgaggcct | 480 |
| tttccaaatc | tggtagtgc | atggccatg | gattagctcg | accagctctc | cacacaggac | 540 |
| tggatgcttg | atgctgggac | ggtgatgtgg | aaaaactctc | ccctgctgca | actggagtct | 600 |
| ggactctgga | gaaaagccct | gtagcgccctg | cagccaacgc | agcggccttt | a | 651 |

<210> 930

<211> 534

<212> DNA

<213> Rattus norvegicus

$\langle 220 \rangle$

<223> Genbank Accession No. AI172471

<400> 930

| | | | | | | |
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| ggaataaaaa | acactgggaa | ggggtaacc | cctcaccccc | aggagtggcc | cagagggaga | 120 |
| gaggctacct | gaggggaagg | aagcacaaaa | ggaacccgct | gcagactcag | ggcaaaggga | 180 |
| atgccatcgg | tgtctgggac | tgtgagcact | acaggaagaa | actcgagcat | ggtgggactg | 240 |
| gctccaggca | cacaggcgta | gggcaagagg | gttggacacg | aagccacaaa | gctacttggg | 300 |
| ttctctcttc | ttctcgtttg | cctttttctg | cttctgctgc | atgatctcgg | agtcctctctg | 360 |
| cttgcgggcg | gcagcagaaa | gccatcatc | tcggcgcttt | cccttaaccg | agtcgctctg | 420 |
| cttcttcatg | ttcttctggc | gggcgagctc | tcgctggtta | ccgcgggtca | tggcgacggc | 480 |
| agcggtccca | acctgcctcc | gttgcgctcc | ctcgttcggg | ccgacctctg | tgcc | 534 |

<210> 931

<211> 606

<212> DNA

<213> Rattus norvegicus

$\langle 220 \rangle$

<223> Genbank Accession No. AI172491

<400> 931

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
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| gtatgcaaaa | cacactgact | ggctgaggta | aagcgcaccg | ttcctgcctc | gtgtccactg | 120 |
| tgagggaaat | tgctcacatg | ctttaaaaaa | catctccatc | atatatatat | atatgtaaaa | 180 |
| aaataatccc | ctagaaaggc | caccagagag | gggggctaca | acgccaccc | tttaccatgt | 240 |
| acggagcacc | cactggagct | gggtagtgta | atgtccaccc | ctactgcttg | cccaaagctc | 300 |
| tgtccagggt | gctcttaatg | gtgtccagga | agtctgtggt | gttcaggaag | tgctcattca | 360 |
| gcttcacatt | gctgaggcca | tggatgcagc | cagccaggtc | cttggtcata | gctccgctct | 420 |
| ccacagtctg | cacgcacacc | ttctccagag | tctgtgcaaa | cctgatgagg | tcttggttcc | 480 |
| catccagctt | ccctcgatgc | tccaaacccc | gtgtccaggc | aaagatgctg | gcaatagggt | 540 |
| tggctactgg | gggccggccc | ttctggtggt | ctcggtagtg | gcgggtgact | gtcccgtgag | 600 |
| cagcct | | | | | | 600 |

<210> 932

<211> 649
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI175033

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 atgttttcaat aaatataatc caaaatttgt aaactaagta accagataga tgagtcattt 180
 tttctagtaa aaccatataa aatattttatt tcatgtgagg tagaggacag ttttgtgtgt 240
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 tcaatcgagt tatgtcfaat gtacctaattg tgtttccgta gttgcagaag ggaccattca 360
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 aactcaaaag gtgtcctaga tttagcaatt attctaattg ggtgtttctca tgagaattac 540
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<210> 933
 <211> 437
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI175294

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 ctttacaaga gactttgaca ttgtagtgtt agttcatcgc tgcccactga acgatccccg 180
 tgtgcatcgt ctttgtcttt ggtgtcactg gtaccaataa acacagttca cggcttttaa 240
 acctaatac actaactagg aaaaagtaaa tcaacgtcac ctttttcaaa attaaataca 300
 aggactaatt tttgtctcat ggtccacaat acctggaaca tcatgccaaa atattaaggg 360
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<210> 934
 <211> 450
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI175338

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 ttgtttttga ggcagggtct ccaggaaacc aggctggcct caaacttgct gtatttgagg 180
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 gggcgctctc aactgctgtc atagctggct ggtcactctg gcctgtgagt cccagggtgc 360
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 caggtcttca gttctgcca attacatgga 450

<210> 935
 <211> 512

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI175423

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caggctataa ttattgaaaa tagagtgcag tgaaatgagt taaatataat ttaggcacac 180
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ctccccgtgt aagcccttta ctgtgaagga aagctttgca tatgtagata taagaataag 360
ctacagagta atgaagacaa gccactctcc tgaaggagac aaggctcatct gtaaggattc 420
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gctcttgga aacacataag gacactggga ca 512

<210> 936
<211> 665
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI175475

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caagaactcc ccatttacca aggagaggct gtttcctgct agcactgtct ctgctgtacg 180
ctccagccaa acagccatga tttcccaga atcccttga gctgttattg cctcagatat 240
gggagaatat aaggttacac acgtcaaaaa cacataggac attaataaat ggcacctgga 300
caataggcct aacattatca aatttttttc aaatgataag ggggtgggagg gactgctacc 360
caaagaaagt tcctcagtca cagtagcatt tagagagatc ttacatcaaa agcacaaggg 420
accagtaa atctactatc cctggcgtaa gtttctcctg gttcttcttg ttgctaaatg 480
gtgacgttct gcctttcacc tgtcttagct atcatttcaa ttaaaaaggg aaactaaaaa 540
atggtagaag aggacgagga gatggtgaaa aacaaccctg ttcagacaaa gataaaaata 600
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atgat 665

<210> 937
<211> 644
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI175486

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<211> 597

<212> DNA

<213> *Rattus norvegicus*

<220>

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gtgtgtttac gctgacatag aaaattataa attacactga attagtatcc ataataccta 540
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<210> 939

<211> 620

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI175513

<400> 939

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<210> 940

<211> 563

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI175566

<400> 940

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<210> 941
 <211> 605
 <212> DNA
 <213> Rattus norvegicus

<220>
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 aaaagctggt aaagagtcta gggagctaaa accgtacccc tgagggtcaag cttacagata 540
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<210> 942
 <211> 446
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI175635

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<210> 943
 <211> 464
 <212> DNA
 <213> Rattus norvegicus

<220>
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 cgggtggttc agtgatagtc cagatgggaa gtcttcacat aagtgaggcc cacacggccc 180
 caggaacgac taggtgttct gacacccagt gcacacagca aggaaatgca tcaattttat 240
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382

<210> 947

<211> 523

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175871

<400> 947

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<210> 948

<211> 621

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175997

<400> 948

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actagaacat atacatacag acatacatag agaaagtatt gattaaaaat ctaatacacc 180
ttaatttttta atgtattgca gataaaactg taaagaaaca agaaagaaca ttatagagaa 240
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gtacaagaat acatacatag aggtataaat atacacatgc atatatactg tggatgtgaa 540
ggtgcatgtg tggttgctca aatgtgtggg cacatgaaca tttgtgtttg catgcatctt 600
gagctcaaaag gatggatagc c 621
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<210> 949

<211> 574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176002

<400> 949

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ttcgaatccg ctcacgcacc tgcaccaggt gggg 574

<210> 950
<211> 549
<212> DNA
<213> Rattus norvegicus

<220>
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gccaaaaatg gggatccccg tttcccttca ccccatgttt cctggatcct ttcctttctc 240
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<210> 951
<211> 450
<212> DNA
<213> Rattus norvegicus

<220>
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<210> 952
<211> 382
<212> DNA
<213> Rattus norvegicus

<220>
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tcttttctcc tgccctcgtg cc 382

<210> 953
 <211> 518
 <212> DNA
 <213> Rattus norvegicus

<220>
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 <211> 550
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176247

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 <212> DNA
 <213> Rattus norvegicus

<220>
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525

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<211> 672

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176298

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<211> 566

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176319

<400> 960

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<211> 646

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176363

<400> 961

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cacatttcct ggcttctgaa aatgttgctt ccacaaatct tctacaacta tgtaccctcg 360
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<210> 962

<211> 639

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176365

<400> 962

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<210> 963

<211> 540

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176423

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 atagaagcgc aagcagggac cggagcctgt cccctcgctc agacaggcga tcagtggcct 480
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<210> 964

<211> 370

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176456

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<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176484

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accaggagag acgcgaggcc tactttgatt taaggtaaag gacaagtgtt taatacagca 240
aaacagaaca caaaaagtaa acaaatcctt agaaattact agatgtatgt gtgtgtttat 300
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gtttgtaacc acctcaccca gctttctttt cactgtgcct caccctccac catccactcg 480
acaccagag tccaacctca ctccctcggc aggagcagcg ccagcactca ctgtggagcg 540
aggagagcag ctattctttc tagttctaata tctgtcgtgg actccgtagt gtgtgtaata 600
ctgaaagggt taggtttact gcaaagcccc atggcttctg ttttg 645

<210> 971
<211> 655
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176492

<400> 971
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gatgcggaca tagcgtctt cgccaccgct gctgtagctc ttgccatcgg gatggaaggc 180
aacactggtg ataggatcaa agtggccctt gactcttcca aactcttctt caaaagccaa 240
atggaagaac ctggcctcaa acttgccaat cctgggtggag gttgtggtca catccatggc 300
ttcctgacca ccttcagca ccacatggtc atagttggga gagagagcag ccgagttgac 360
gggacgttct gttcggaaag tcttctgatg ttcaagactt gtggagtcca agagcttagc 420
tgtgttgctc ttggatgcgg tgacaaacat ggtcatgtct ctagacaact ggatgtcatt 480
gatctgccgg gagtgttctt taacgttcac caatacctct ccagacttgg cgctgtactg 540
gttgagctct ccgtctcgtt ggcctgcgat gatgcactcc cccaggggac cccaaacagc 600
actggtgatc cttggaatca ttacagggga tcttcatgta agggctcgtt gctgt 655

<210> 972
<211> 498
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176540

<400> 972
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atcacgacct ttgaagtgcc ggttctcaca ctgggtgttc cagtgcggac aggaggcccc 180
tttgaacatg tgacacggtc catccacgcc aagggtgtca ccctcctttg ccgtcctacc 240
tactgcttta aaaatacatt caaataaaaag ggtacgttac ttggagtgcac tgcacacgta 300
cacggcagcc aggagagctg agaacatgat gaaccagctc cgtctggaga ataaatagtt 360
tgaaatagtg ggactgaagt ttgctgcttg gggaccttct cgagcatcct tgggtggacat 420
aaggtagccc tcgtctgatt caaggacaca tcttttgctg ggggaggggt tgttcgtgtg 480
ataatttcta gtacacag 498

<210> 973
 <211> 678
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176546

<400> 973
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 gaaaacaagc cacttgggga attcctgtca agttgtttta gcttgtgttt acttctaaga 180
 ctagtacatg cagaattaac tacagggaat gaaaaaaatt taagatgaaa cttaagtcatt 240
 ctttaatttg tctactaaag gaatccagct caacagctaa acacttcaga ccacatagtt 300
 aacagtaaca gtaggttaca ttacgtctta caacaaacgt tctatcaacc tcttgagtca 360
 aacctatagt atcacagtat cacatgtaga aattttttacc ttcccctagt tttcatgcc 420
 cacagatgtt ttaaagtgtt acaaaaaataa acaaaaatca tggaaaatat attatcagaa 480
 ggaatgaagg taagcatcaa acacatagtt ctggtgaagc ctagtctact tcttccatgc 540
 gtgatgtgtc atcatctcct tccaggggtg gcatttcttc agttacagca gcactggtat 600
 catccacagt aggatcatcc tcatcaatac ctagaccaag cttgatcatc ctgtagatcc 660
 tgtagcatc ctggtgcc 678

<210> 974
 <211> 575
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176554

<400> 974
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 catttcttcc acacggtaag acagggtccc acatagccca ggttgaccct gaactcctga 180
 tcttcccacc tccacctccc aaatggtagg attctaaaca cactccacca tcttggttta 240
 tgtggtgacg gaagccatgg cttcaggcat tctaagcaag cattcatcca tctgagctgc 300
 ataccagtc tatctccac ccactcttag aagagcatga atttatgccc atttaagaca 360
 ctggcttcgc tgaacctcat taccatgatg agggaaaaaa aacctagaat ctcaaagact 420
 agcagtgcct tgtagctgtc atcatctcct ggccacggcc caggaagtaa gcatagata 480
 gaactagggt agttcaactg acatactcgt gctgtgcatt caatctgctg agtcagtctg 540
 ggattagcat cctggggaat atgacacact tctgtg 575

<210> 975
 <211> 590
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176590

<400> 975
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 tctgatttac agaggggaag cgaattccac agcactcatt ctgaacacac tttgaacttg 180
 aattctagtgt ttctccgtgc aaaagcaaaa gactgtttcc cccttgcatc caccaaacat 240
 gattagttaa aagcaagaca ctgcaggcgg attctgaagc agccagtaag gagctgtaaa 300
 cagttccttc agacagggtg aagccgcagt aaagaaaaa gtgtcagtag tgggtatctg 360

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gaagcagagg agaaaatgtc agtgagcgag aggcttgtag aaggacagtc agctaggggt 420
acctttgcta tagaaaagag aactgttagc tcttcactgc aagtttcaga ttttactcaa 480
ttattaagcc tccatgctct gtaatataaa aacaaacaca aacaaaaatt acgtgatttc 540
tataccacag gaccaaagag ggcttttcaga cactgcaggg acctcgtgcc 590
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<210> 976

<212> DNA

 $\langle 220 \rangle$

<400> 976

<211> 511

<213> Rattus norvegicus

<223> Genbank Accession No. AI176598

<211> 667

<213> Rattus norvegicus

<223> Genbank Accession No. AI176616

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aattgattcc ctacaaaaat agtgctaggg acctgcaggg gctggtcatc agggttacca 420
tacaagccat ccattcattg gacagtgggg aaggcataatc tgggggttat cctgggctat 480
ctccacctca tctgatagcc aagaaggaag caaacttaag gatggcagcc caccaccat 540
tcacaggtcc ctggtaagtg ttggtcacca aggtctccac acactctggg cccggcgagc 600
tgtggtcagg atgcctaagg atgtgggcac caaatctggc cctcggcag gcacccggtt 660
tagttca 667

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<210> 979

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176642

<220>

<221> unsure

<222> (1)..(591)

<223> n = a or c or g or t

<400> 979

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tgcataaact gctcacacta gaaatacaaa catcgatgta gatgaacaaa gtgatgttca 180
gagccaactc tgctttgaaa ataaatcaca acctgaaaca ctgtgagctt tctcctgaag 240
aaccatagtt aatatattgc ttaattttac ccttgtataa tcttttcata tacacatatc 300
tcagatgcaa cttcatgagg aactgtacaa ataaaaccca caaatgacaa aggaagagag 360
acaggtaaat gtttgaagag atgggtcctc atcactgctc aataacatat gggttggcgg 420
tgacgtactt attcaaaaat tgtacacaat tcactataca aatataatac attggacagc 480
tatgtaggaa tatacaagac ttaaaaaagg atctaaggca ttatgctagg ttttagcatt 540
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<210> 980

<211> 605

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176648

<400> 980

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ttactacttc aagaatctct tagaacaat gttatttggg gttgaaatgc aaaatctgac 180
ttacaaattc tcattcagtc cctgtaagac aaagcacgcg tggtaaaatg gtagatcctc 240
aacaatacta agaaaaccag cgtgagcgct ccacctaaac gccgtgtgcc gtgctccgtg 300
cctttgggtg tgcccgcaga gtgtgagaca gtcagtctcc ttggacactg gcctagtgtc 360
cactgccata ctaagggcaa acaatgtgct ctgtttactg ctccaacact tataccagct 420
acacgagaga cagagaaata cccatgtgca cgtagagcaa aactgaacg ccgtagggcc 480
ctaaagtctc actacttcaa gagggcactg cagggaaaag acaaggtgac aggtaaaaaa 540
aatgagagct gtgcctgtgg gctgcacact gtccagtgtc ggaccagaca tgtttggggg 600
aaaaa 605

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<210> 981

<211> 604

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176658

<400> 981

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cttctacttg gctccagact gttccgactc tgggcctcca atttgggcac gggcctcgaa 180
agtgaccgga atgggtgatct ccgctgattg tgtgactgct ttgggcagcg gagccttcac 240
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gagcgtgtat ttccgggtga agcaccgaga gatgtagcca tgttcacccct gcctttcttc 360
gtgcttgcca gtgatctcca ccacgccttc cttgggtctta actgtgagct cctcaggagc 420
gaagtgggtg acgtccaggg acacgcgcca gcatcgcc gtctgtcgga tctctgagac 480
accgctactg agttgccggt tgagcgcccg gctgaaggcg ggcgcggcca gggtcactgc 540
tgccggggccc tcggcggtcg cggcgggcaa agggcgccaca tagccggggc aaccagcgga 600
gctg 604
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<210> 982

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176675

<400> 982

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cttagctcca ttgatacaac ataaggggtt ttacattcgg cctagatata gggagaggca 120
gattccctcg cctacagacc tctggcttgc aagcatctcc caccacaaga ttactctgta 180
tagtacatag cccttggtta gttaggggat ccaaatattc gttttcaggc ttacaaagtc 240
cgatacattc actctctctt tccttcacaa gtctaatagc aaaaactact ttttccatgc 300
cccaaagcca ttatcagtag aagaaaactc aggcaaaaca gagatggcag ttaaggaatg 360
gacagagtat tattggcaca tgcccagcta gtgacaaaca aatgcagtgc accatgactt 420
gaaaataagt cacattacaa ggagaatgaa acaactgta ccaactaagc tagggagtgc 480
gaagtggaaa ggggattgat tgagagttac tggttttact ggtacaactt aaaagcagtg 540
gagggcaagc acttaaatcc tcgtgcc 567
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<210> 983

<211> 559

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176701

<400> 983

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tgcccttgggt cttctttcct gtgtgtcagt gctgaagtga aggctgcag gtcacctggg 120
aagcagggct gataaggagc tgagtggaca gtctcgggct cagtgcggag acagcagcac 180
ctatgcgagc ctttgactg acccgccct gctcagagga gctggctgtc actgagtggc 240
tacttcacat ccctcctgca cacaacagtc ctggattagc tacgtggtat gctgtggtca 300
ccctctcttt ggagtacaag ttcaggacat caagggtccac gcgtggacca ctatggtggg 360
aggtgactgc taagagccac aactcatca tgcccagcaa gtcctcaggt tacaacact 420
ggtttcctag tcagcccagg ggaaagaggt cttcactgtg gaagagagga tttataagta 480
atctcaagaa agctgtgacc tgctagtggc cttggctttg tgccctctgt tggcctcttt 540
ccaaggtcct ggataacat 559
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<210> 984
 <211> 479
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176739

<400> 984
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 aacatctgta tgtgcaatta aatactgtgt ctgttactgt ggtggcaca acctcaaaca 180
 aacaatatac aagtgttctg gggttggatc aggggtcggg ggagtccca gttttaactc 240
 tgtgggggtt ggggagacaa ggtgggggaa ttgaacgaat ggggaaatca atttattttt 300
 cttaattctg tccatataaa tatattcatg aagaccaaaa gagggaaagg cagttgggct 360
 ggtgatgaag tgggagaagg ggagggcata tccctcttaa ctctactcag ccaaaaattt 420
 gaaacaaatt aatttcatgg tgggagaaga gatttaaaaa atgatagaag atgggacct 479

<210> 985
 <211> 556
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176781

<400> 985
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 agcacactca atgcggaaga aaccaagtgg atacatggga gatgctgtaa attaggtcaa 120
 gagcaggcta gggaggtctt ggtagtagag ggcttttcca gggccaaga cagaccgtg 180
 gctcagtgcc cagcaacaaa atgagaaaaa ggtaggtgtg tcagacatag acggtttgta 240
 taatgtccaa ctaaattgtg agtggcttca gaaatgcacc atgttaaata tttggataca 300
 aacaacacta tctgaaattc aagtggagcg tgggtgtctt ttttgccaag ggaaagaagt 360
 tagtttccag aaaggatgaa cattaagacc tttgtgcttc tgtaacagaa gttaaagaac 420
 catggaacat tactttggtt tcaacaggat ggtgtttgtt caaggctgag agcctcaagt 480
 gagcaattta gcagagtctg tatacaaaaa gatttaccac tggggcacag agacttcctt 540
 cgtgccgcct cgtgcc 556

<210> 986
 <211> 599
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176810

<400> 986
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 taaaaatata ctgtgatgga actgtaaagg gaactctgac taaaatcctt tctttttgca 180
 aaactcacc tgcttatctg catgtctttg gaagaagggt tgctaaaact ggatcctagg 240
 tgggtccaggc agagagaagt cctttaaaac ccagatgaaa ggtactggag aatgctcccc 300
 cagctgacac taaatactgg agggcagcca tggaggactg aaggtgaggt cagagatgag 360
 gtgcttagtg acagaaccca aggcctggct aagggtcctt ccatgtgaca agcgctttcc 420
 ttgctagtgt taacagggga cagaagctaa gggcactaag gccagaggag aaatgtctgc 480
 taagcaactc actgccccct agacctctaa tatgtacaga tgcttaaaac agcaagtccg 540
 acatttaaaa gtcaaaaaaa ggtcaatggc tgcatttccg actcatgggc gaatctgtc 599

<210> 987
 <211> 445
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176828

<400> 987
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 acagttcatt ttaaaaaaga caacgactca taaaatgaaa acagaagaaa gaatccagag 120
 ctggagagct gaaatgtggc cctggggaga atgtgtatgt ttccagtctt gatgttgggg 180
 gtcatccccc agtaagggaac tgacaggcct gagactgagg tgctccaagc ttcctgaggc 240
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 cctctgtgac cttgttgttg ctactgctgg gcacaatgga aaacagtcaa gccccctggg 360
 tgaatcgcca gcccaagctt gtcttaccag ctcttccga aacaactcct tagcctcgtg 420
 ccgaattctt ggccctcgagg gccaa 445

<210> 988
 <211> 574
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176836

<400> 988
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 ccgggagacc tggagaatta tttatccggg aatatgccaa gaaggcagtc agcaagggtg 120
 gcaagggtgg cgtggccgct gaggccctga aggacccga ggtgtgcaca gaccctctc 180
 agctcaccac acacgccatg ggggtcaaca tctacaagga aggccaggag gtggccctga 240
 agccagactc tgagtaccgc acatggctgt tccaggtgga cctgggtccc cccaaaaagc 300
 tagaggacct agaaccggag tcccgagagt actggcgact gcttcgcaaa cagaacatct 360
 gggtgcacaa caggctgagc aagaacaaga agctgtaatg tgagtgtggg cacttcctcc 420
 caggagccag cctggtgcca gccagaacgg ggagaaccga gtccttcatt cgctcaccgt 480
 gatgtgcagg ccttacacac actaaataaa caaagatgaa aatgaagggc aaaataaagg 540
 gacctgcggc agtcaaaaaa aaaaacctcg tgcc 574

<210> 989
 <211> 478
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176839

<400> 989
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 agtagcagtg tacaccaaac cactcctccc cagccaaagc tgactcttct ttgcatcctg 120
 catgcctttg aacctatgcc agccttgtgg ggggtggcagc aggactagac tgctattctg 180
 tgttccaagg ggtacctgaa agcaagaata gaccaacact ggcattccgtg ggttcctcag 240
 gccaacgcgc tcccctctga gttcaccatt cattcaaagc ctggtcttgg ccgtcagcaa 300
 accttgagac ttaaggtgct cggcgatttc tcatctccct ggaggacctt ctctccctcc 360
 gacctccatt ctgtactgct tgatcagtc agccatctgc aaatgaatat cacagggaag 420
 agacctatcg taaccacgag aacacctcac ggagactcac ctctgtgccg ctggtgcc 478

<210> 990
 <211> 662

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176841

<400> 990
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ggagaagggc agccacagag gcagagagcc cctaagccag agctactggg ggtatatggg 180
gaagcaagaa gatcagggac ccatgacacc ctagegtctc ctgcccagcc ggttgccctga 240
tgcagggctt gagccatcta catggtgcaa cctggtgggg tggcccagga gcttccgtca 300
cctccagcct cctggcatgg ggtgcccagc ctctccatcc caatatgggg ccaggcaggg 360
aacagagtgg gcagtacact cacaagagca cagtccctct agccaccaga ggttgccagg 420
atactggggg acatggtggg gacgcccac accatacgag gaggcagaga gatggccgag 480
catcacaagc acaaggtaag aaatacagaa cgagctagga ccacagcaag aactgcacat 540
gcctggaggt caagccaccc tgctcaggtc ctgcatgtga gacggctgcc gtctgtccat 600
ctggctgtgg gaatcaacac ccaggtcacc gcactgcaca ggataggggg tttgtatgtg 660
ca 662

<210> 991
<211> 498
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176901

<400> 991
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ggaatgcatg aagcacaatg gctgtttctt cctccagaaa ggcacttaca gtttagcttg 120
gccccaaaag gcaggcgaaa gctgagacac cagtactcaa ctcacacctt ggagctgaag 180
ggccagttaa ggtggtctta gccatacagc cccacctccc cttactctgc ctcttcagc 240
tgtggcccat ctgggacaa ctggtccatc tcccttcggg cagaggctga tagggccctca 300
ggcagggcaa aggtccctct acggatcttg ccaaagagca gggctggttc agagtcctgg 360
aacgggtatc ggccagccag catggtgaag agcgccacgc ccaggctcca gacatcagcc 420
gctctgccgg agtaggatgg ccgggagctg agtatctttg gtccacataa ggcagggcac 480
gcgtgcttgt cccacaga 498

<210> 992
<211> 575
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176942

<400> 992
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ggcatgggtc gtgcaggcag tattaccatt gcagaggtaa tgtctcacac aatctacaac 120
actgggggtc ctaagaggct tctctctgcc tgggtgactt tagagagggg ccctccctcg 180
ggtctgctga tccttagtca tccctcaaca tgaagatgct tcagttcaga ccaaacagat 240
acaggagact acaccactc cagatcttat atctgtaat catccccttc tatacctctt 300
ctaagtcttg gagcaagtga tacatgtaca catctatctt catttacaat tcaacatcag 360
gctatatcac agatcactcg ctgattctca gcaattggac aaggtctgag tctctggagt 420
aactaccacc cactgtgaaa ggctcccttt accactgagg ctggcacagc agtcataggg 480
cataaaaaa aatgttttga aggcaagacc acacactata cctgtttaat aaaaaataaa 540
acaatactag tagtagtcta cttactatgg cctat 575

<210> 993
 <211> 435
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176947

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 agataaactg ccacagtaag tgactacagc gtggctctgt cactcatacc agacaacccc 240
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 tgtttttcaa acaaaggatt actacttgct gaggtgggtt cctgctttac ctagaactcg 180
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Figure 1 consists of 12 sub-graphs, labeled (a) through (l), each plotting a different physiological parameter against time (0 to 10 minutes). The y-axis for all graphs is 'Arbitrary Units' ranging from 0 to 100. The parameters are: (a) HR, (b) BP, (c) SV, (d) CO, (e) SVR, (f) PVR, (g) P, (h) P, (i) P, (j) P, (k) P, (l) P. Each graph shows a baseline value that decreases over time, with some parameters showing a more rapid decline than others.

| | | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-----|--|
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| ctccgtcaca | tctaaattac | ttactcttca | acctctaaac | ctgcttagag | gtgatcttta | 180 | |
| aagaacagta | agatcaacga | tatacagtag | ccacagatgg | ttcattcgca | ccttactctt | 240 | |
| ctcaactcta | actctcctca | gtgaaccac | acaacatact | gtgagacgtt | tacactgttc | 300 | |
| aaatgagaaa | tggaatattc | agagagtaaa | tgatttctta | agctgaatat | ggtggtcat | 360 | |
| gcctgtgatc | ccaatagtca | ggacgctgaa | gcaggattgc | catttgtttg | aggtcagcct | 420 | |
| gaactagtgt | gagatgatgt | aaaaaattaa | atgatttcca | gttccaaaaa | acaaagaaat | 480 | |
| taataactgc | ccagcccaa | ctggcacaat | ggcattggga | cctgccatgt | ggcaaaagct | 540 | |
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| gttcttggtc | accatttaga | tggcataata | aactgagaga | acaataacac | aatcccaaga | 120 | |
| aggcattacc | ctataaacac | acgtatgacc | acccatgcac | acatacacac | aacatacaca | 180 | |
| caaagattat | aatataaaca | ccaagtgatg | aaaaaaacac | tttgaatgct | ctaaatcaaa | 240 | |
| ttaaaacccc | tttattataa | taaaccgtgg | caatattgtg | actataatga | aagatattgt | 300 | |
| aactgcttaa | gaagaaaaac | aggggaatac | tggcaattta | gcagcagcaa | acagccaagg | 360 | |
| aagggtggaa | gctaagcaga | cgaagcagca | tctctctcta | atgttggcac | tgtgtaggac | 420 | |
| tgcacggaag | tagtttaagt | tcagttttta | aggaactatt | aaaacatcct | ttgaataact | 480 | |
| aatttgctgc | actttacaaa | caqtqaaaaa | qaaaaaaaaa | qtattttggaa | tqttagacac | 540 | |

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<212> DNA

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<212> DNA

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605

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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AI177638

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<210> 1020

<211> 647

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177885

<400> 1020

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cctgatctga cagtatacca aataaagctc tggacaagca cctcctaaag cttggaagaa 180
cgcccggcac gtctcctctc tcgcactcac tgcactacga aagactaaag agaaatttgt 240
tctgaaaggt gacttgctta gtacaagagt tgagttcaag aagttaatgt tttagtgcac 300
tttgctccag ttttagccaa catgctacat tttccttttt gctgttgctt tgttttaggg 360
ggaagtgggg tgaggagggtg cacaaagtag agttgaagat ttccactgtt ggaaaaagag 420
aggactctgc aagcaaaaact ggaagctgcc ttgtacctta agacctgaac attttaagac 480
agaagctttg caaaacatta cacaattttt tattattaaa tgagaaaatc tcatttggtta 540
catcgtcaca ttgctagtca agagaaatgc tgcagtgatg aagaaagtca atgttggtac 600
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<210> 1021

<211> 395

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177911

<400> 1021

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agcatectct tagatctgca gttgggctca acgcactcca gtctcagcac aatcttcttt 180
gtagtttttag cttttttgcg gaaaatgggc ttagtctgcc cgccgtagcc actctgtttc 240
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<210> 1022

<211> 558

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178025

<400> 1022

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gggggtcatgt tccacatggg aacagagagg cacaagggct tctaagtatt gcacagtctt 180
gaaaaaaaaa aaaaggagtt gggaggagaa gatcacatga tactgggaac gtctcacatt 240
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agcaatccca tgtgcaaata ttaataggaa aatatataaa ataatgcac tcttgccatc 420
acccccggca attcaggacc gtatttttga gaactgtttt gtttgacact cggttaagct 480
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558

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<210> 1023

<211> 566

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178027

<400> 1023

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agcttggggtc gggctttgag acgcgctaca taggcggaga gcagggggaa gtctttcaag 180
taaccaggga acaggagctc taggttcaga agtaaatcca gtaggcggta gtcggcgaag 240
gagatctggg caccaacaat gaagcattgg ccacccttgt tctgggccag aagagtttca 300
aatggcttca ggtgtcctgg aagctccttc ctatattggc cttgtcttc cttacagata 360
tgagatagtg gccatgcaat gcgcctgaac acgtcttcca gtccgtcgtt caccatgtcc 420
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aggatggcat tcgattggta cagagtgagc tttccatcct ggaacttggg gatctgcccc 540
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<210> 1024

<211> 475

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178073

<400> 1024

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cctgtgatga caacttcacc agctcctcta aaagcactgg ctccgaagga agcattctga 180
ggtgtaactt cagaaacaat gcaaggtaag cctgggccag ctcgaaatca cgctttctgt 240
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caggagacaa gttccgcagc tccgtttcaa tcccagacgg gcctaactct ttcagaaggt 360
taagagcccc ttcatactga ttattttgta atccttcttc aagtttcaag tagaaaattg 420
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<210> 1025

<211> 599

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178214

<400> 1025

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aacttttagat ctaaaacgcc cctcggcagc cgccttcgcc tcacgccgtt cctgtaccat 180
cgtcacgttc cgaagagaaa tcaggatggc agcaaagctt cgctccctaa ggatctgaac 240
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tgctgctgta gtgaccagtg tttgggagag aacatcagtc ttcaggagcc acgagctgac 360
agagtgccat ccagtgacct ttccgagaca caaggtgtgg ggcacacgcc atggagcgag 420
gttcggatga ggacagagga ggggtgctgt tcatacagtc tacttcaagt aaaaaaaaaa 480
aaaattcaca gatacccatc agctgctact ttatgggcta acagtgtctt aatcggagaa 540
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<210> 1026

<211> 660

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178231

<400> 1026

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acactaatac aagctgttcc taatacattt tctcatttct tatgatcaat gcttttaggg 120
ccttgtttaa caagaacaaa atactttcta atagaggaaa ttaagaggta ttatagaaga 180
gtttagaata acatgaataa atcagaggta aatattgtga tttttcaagc aaagaaactg 240
atataacaag tcacctacaa agcaacacaa tgacttggtt cttagtgcc aagagtcctc 300
ggttcctgtt gtttcttaga ccagagtctc ctaaccagac agcacacatc caacactcta 360
acgtgactac aaccacgaga caagctctca cgttgtagtt caggcttgct tcaaactcac 420
tgtgcagctc aaactgggtt caaacccatg atcctctgct tctgcctcaa catctcaggt 480
gcaggctatc agacgagctt gactaataaa aggaaacagt tctgtcacca cagttactgc 540
taacaatatg caagcagtta agtttccac atagatgata ggcacatgcc aactccaaca 600
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<210> 1027

<211> 488

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178326

<400> 1027

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ctttgctatt taagggtctg aatgtttcag ctttttaaag gaaagcagag atgtatggta 180
cagctccctt gcaagagggg attcagattc acagttaaca tgaaaatcat gtagcagacg 240
tgtgtggagc attcttcgta cactgggttg cagcagtgac attcacacag atttccagc 300
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catatacaca gcatgatgat agaaaacaag atatatgaaa tgagattcct aaatttcggg 420
tctaagtctc ctttgcgata ccagtagata agtatgcagg cagtaatact actcaaagag 480
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<210> 1028

<211> 552

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178483

<400> 1028
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 actatgtata atatattggg ccttacaaat tcaatatatt ataaatcaaa taacatagca 180
 cagtcatact attatttaga cagataaacc acacattaag aaatctgctg tgacttttaa 240
 aagaaaaggt aaaagttaga gaatctctaa tctgaaaagt aagacaattt ctattggctc 300
 atttttttaa aaaaatataa aatgcccctt ttagactatc tttgggtctt ttagttaaag 360
 agaaaaatgt gtttcatttg ttcttagtct aatcttccat atctaaatgt ctaaaaataa 420
 ctcttaagta tcagaatcca gggatgtaag ttttgcttta aaaaatacat agaatcctaa 480
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 tggtaatgcc at 552

<210> 1029
 <211> 552
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI178491

<400> 1029
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 agtttccttc taagctgctg ggcacacacc atgttgatac cagaagagag agcacgatag 180
 caaaccccca tgaacacctt agtactattg aacaatgaca ctgtcataaa cagtaaagag 240
 ttacagaatg cagagtgaac cgtcgcaatt acatgagcac agcttctttg cgtatactct 300
 aagctacagg acaggatgaa cactgcatct ggctcatatg tgatatgtgc aggagaaaca 360
 aaccacacag tatacactgt atgtgtatgc atccttaggt tctgaggaca atgtagcgtt 420
 gaataaaagt ctagtgaatt tgccacttgt cctgctccag gacagttacc gtcaaaactca 480
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 aaaacttaaa aa 552

<210> 1030
 <211> 586
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI178507

<400> 1030
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 atttaaaaaa cacaacacat tggagttgaa gggaaacaaa gaaaggaaaa acaacaatgg 180
 aagtgtcagt gaccataaca atgtgatggg ataattaaag aaaggattca agtattgtaa 240
 agttcttcag acatgtcttg gaggtttgtg catttcccat ctttgcatag taaaaaaaaa 300
 agaaagaaaag gaaggaagaa agaaaggaag aaagaaagaa agagaaataa gaaaaggaaa 360
 aaaagaaaaa acatcacttg gcaaaactcc agcactctat gtgactcctg ttgaaacatg 420
 cacctatggg actgctcact tagctggtag aagtaggtct aattcagtgg gttcatgcac 480
 tatccggggg gagcaatgag gtcagcgcac acctcctcgt cagtgtcgca gtaaaagtag 540
 agcaggtgaa gtgggaactt gggcatcact tgacactctc gttggg 586

<210> 1031
 <211> 552
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178527

<400> 1031

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acaggtaatt caaaagtcca gagttacttg ataaactgga aaatattttc tctgtagaaa 180
atagtaaaaa tgataacatt tcccactaag cccattttaag ccaaataaga gctgaattat 240
acataaatat tggatagatt gtgtgaccca aaagaaactt ctcttgcttt atttgaaaag 300
ccatatttta tttaaattgt gtcaattgaa attctttcct tctttccctt cactgttttg 360
ttttccgcag atcatttttt ctatagggtgta acccattaat tcaaaattca aaaggtttta 420
gttttaggct gtcctcttg aagtagagcc agcatgtcct tctaccatct tgaaatggcg 480
aattcttacc caatagtga atgtttcatt aaatcatgcc catattttatt acaagccaga 540
gagtcgtcaa ca 552
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<210> 1032

<211> 603

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178531

<400> 1032

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accttaaaaa ccagtatcag ctttttaaag ttaacagaaa taaaatgcca tgagtattta 180
agtatatatt tgtaacttaa aagaaaactg gtaaatgtcc atcctgtgtt ctgcagaagt 240
ggggactacc caccaaaggg taccatgttc tttactgtgg taaagacagg attctctcat 300
cacttcttgg ctttttagtat aaattctaatt gactgacaga tacattacac ttagtaaatg 360
caatgtttgt gttttacttt ccagaaattt agggaaaaatt tacagaagca gatatcaaaa 420
agtgatttaa tgccattaac aatcaattca aattttaaga gaatactaat catatttcaa 480
aattccctag tctataccac actcctcccc tcccataaag ctcagggaac atggaagaag 540
aggagtgaga gactgtaaga gtcagaagtc caggaggcat ggataaactg acatcttttg 600
ggt 603
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<210> 1033

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178533

<400> 1033

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caccgtcagt agatcctcca ggaatgcagt tggctgtcac cccaccatca ccgccccgat 180
accgacatg gcagtagaga tagtagagcg cgtcctgagg cagcgccagc ccatgggtgc 240
gggagaactg cgcaccgggt ctcagaaacg cttcttcttg gctcgccttc cagctgagcc 300
cttgcccgt catccaagcg cctatgaggt gggcagcagg aagctcgggg ctgaagtcag 360
tttctgggtc cccaatggc agctgttgaa cccctggatc tagtatagaa tccacagctg 420
gggacagggt ggtcacccat gcagatgcct cccgagaggg ctgtgcaaca aggcgctggg 480
atgtgggatc tagattcctg gaa 503
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<210> 1034

<211> 574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178573

<220>

<221> unsure

<222> (1)..(574)

<223> n = a or c or g or t

<400> 1034

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agagtgaact cttgcctgcg ggttggcttg actacgcca gccactgagc tgcctcaacc 120
agccagggat ctatgaggct gacttctgtt ttcattgatg caccatatgt agtatgtatt 180
ttgtctcaat aaagcatttg taccgatggc tctggaggca gcggtgctga ggatgagctc 240
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gcttgaacac ttagaggcaag taagtcattg acggcacctt ctgcctcaaa gtgttacta 360
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gactgtctga gatctttaag gaaatgtatt actttaccct nccagcttag gctgaattta 480
cccaagtatt cctagtcccc tagtcccagt aacacactgc cctccaatcc gtcctgggta 540
cccaggagg aatgaaagaa agggtttggtg acat 574
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<210> 1035

<211> 635

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178602

<400> 1035

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tgtacaatat aatacatttt acattacata tggggctttt atacataaag atgagatatg 180
atztatgggt actggaaatc caaacaaaat ttgaacagaa catttctatg catacaaca 240
caattgctca gctgtgaaaa tcaaaacat acataagtgt gggtattaaa aactaaaact 300
acattcacct gataataaca gaaaatgaaa ttgcttttat tattttgaaa gtaccacaca 360
cagattaact gtggcccat tcatgtgtt aacaatatcg acgatctaaa ctaaaatatg 420
tgctcatttc ggggaaaagt ttccaatttg cgttttcttg taaaggatgg atattattat 480
tatttatagc cattagaatg ccttgttcat aggccaaggc aggtcaattc tgggtaata 540
gtaaagccac taagggtggg gtgcctatca tagtgctata gatattttac catatactct 600
taaaaataat catattaac ttagctttg catgc 635
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<210> 1036

<211> 438

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178629

<400> 1036

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tgtctgcccc gcagtgatca agagtggcct ctgggtactt gtgcagcagg tcaactgacgt 240
cagtgtcttc cactttcacc caaccgtctt tcttcatgtg gtacatgttg acaactcctc 300
cagaatagct gtctctgtgg gtagcataaa caatagctct tcgggcaagg tcataggcct 360
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cctcgggact gaaatcctgc cggtagccac tgtccataac cccgtaggca taggtgttcc 420
cgctgcctgg ggaaaaaca 438

<210> 1037

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178635

<400> 1037

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ttgtgagtag aaggaacgga acagcatttg gatggatgaa gacaatttca aaagtgtgag 180
cacctctgaa aagatttcac ccatgtgttt ttgtttcctt gctgatatgg aggggctttt 240
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tagatttcta agaaagagct caaagatatg tatcacctag caagtgcagt ttttcaacat 360
gtcggaatcc aaataattac tacaaagagc aagttttcaa ataccagaa aatttaattt 420
acatgttcaa aatgtatgcc cgtgatggat gtttcaatcc tgtgtcatca aatggatact 480
aaactgggtcg taatgaaaga c 501

<210> 1038

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178734

<400> 1038

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gtgaatggaa tctgaatgtg gtaaggacat ggacttgga aacataattg aacatcgtga 180
aattgcagtc tatgctttct ctggctctct aaccagcta tctctcagcc atctcgaca 240
ctagacatcc tgactctacg tacacttttg tcatatataa tggcttcctt ctgactgaaa 300
tgtaataagt taacaggatt tgtatctaag gggcttttat ctgggggtgtg tattgccaga 360
agtgtgcccc attttggacc acataaaaaac tttggcccca aaggaagctg gctgccatct 420
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atccggg 487

<210> 1039

<211> 587

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178736

<400> 1039

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ttgccaatca gaccagtggg ggtcctccgg gttagggcag gagactgact ggatagacca 180
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cagctgaggg agctgtttta gattatctat gaccatgaac acagtacaat ttgaatatcc 300
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gaaacaggcc accactacag aaggggacca caagttgatg atgttcaagg caagtcaaca 420
tcagggtctt ggggtccatct cattggaaaa gggccttcgt gttcgtgttg ggacggagca 480

tgtgatgctc tgacgcaatg ccgtggctga agctccagca cagcttaca gtcaggaagt 540
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<210> 1040

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178740

<400> 1040

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tgaacatcag catctggcag tatTTTTTggg aaaaaaaaag tgactaaaat ggggtttaa 180
tgattaacac tattaatatca catctaatat ttgatactac atgattcaat acagctatac 240
gatacaatta taaaaaatgt gttaacatca aagaatacaa ccaaaattaa gatagcaaac 300
aaaacctata taactTTTTT ttgtacagga aaaatacttt tgaagtatgc atgtaactgc 360
ccattctttt aaagaaaatc taccgcaagc aagtcgtcac cctccagaaa gtcacacagc 420
attactaagc atatcccaa aaagtgtaca atatgcacac ttggaaaata caaaattaaa 480
aaaattgtaa gcaacagggt agcttcgtat ttataagaat gtgaaaagaa gtcccatTTT 540
tagcactggt gtataaagaa ttg 563

<210> 1041

<211> 656

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178741

<400> 1041

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aaccttgaaa cagttggagg gaggtattg ggtctactga gggttagggt tatctgaatt 180
caagggttca gtgtggtcag ggctgaggac acttggaact aggtcaaga tttagaccag 240
tattaacctt cgttccaagt tgtgtggggg ctgaaaaatc tttagagctc aagatttgag 300
gatgtcttgc cttagggcct agctttgaag tatggaagac catcgagtcc cacatttggg 360
tcaggggagt atcttggggg ccagttttga gattggccac agatgctgtg gcttagaaat 420
ccagtttcaa ggctggatgt aagcgactga gtctcaaat gagggctgag gaagcctgtg 480
gtccctcggg gacgggctag aggctaagag atgaccagtt tggggctgca gtgagcagtc 540
acaggtgcct tttcttgagc aggccagagg gctctaggca cctgttttaa tgactaggaa 600
aggtttgggc ttgggtgtgg ggggtggggg cctctagatt cagagtataa ttgcca 656

<210> 1042

<211> 542

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178746

<400> 1042

aaaaatagag tgtctttatt ggtacctgtc agctcaggta caatgtgttc tcacaagcac 60
acaggctggc aaggcctcct gggcaaggag gcaggcccag agcctgcgtt tcttggcaca 120
cacacacaca gagaaatgaa taaattatag ttctgacact tagagacaat ataaaaatgc 180
atataaaatc caacatcagc taatgaaggg cataaaagcc cccaagagcc acctctttct 240
tgccaactgg ccgggggggt gtgtgtgggt caggatggat tcagtgccca gaaaggctag 300

agacagtgat ctgggggtgtg cttcatgtct tagggcctct ggctcccat cctacatagg 360
gcctttataa cccatggcct tggggagagg gaaatggaca gagggcatgt tagagcgtct 420
gggcaggggg cagagggagt tttgatcacc gatgggtcaag cacagcctcc gtctgctcag 480
ctcgaacctc cagccacac cgaagccag accggcgggg gacaccgaag actttgcctc 540
aa 542

<210> 1043
<211> 485
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI178756

<400> 1043
atatacacia ccacatacag tccaaacagc acccagcagc cataaagact cctgggggta 60
gttaagcctg agtttcataa ggatagtaaa cttaagggag ccacgaagcc tgaagacaaa 120
ttcaggacag gaaagggcaa aacagccagt tccctgggtg ctttcctcac tggaaaatca 180
aacatgtatt cttactccaa cagtcctgtc catgtttgca tgtcaccaca cttagcaaaa 240
cacaacgaga tcatatatga ctagaactaa gtgcatagaa cgctgtcagg atcactgctt 300
gctcttcctt tttctcagtc tttttttccc agagctttca ggtgctggag tctttttgtgt 360
gtcttctttc actggtgaca caggcagttt caaaatgatt tcatcatcgt cattgatttc 420
catcaactgt gatttccgtc tttccaaaaa cgttgggtga caaactggcg taggatcctc 480
gtgcc 485

<210> 1044
<211> 687
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI178784

<220>
<221> unsure
<222> (1) .. (687)
<223> n = a or c or g or t

<400> 1044
ccagttttta tgaaaattaa taacattaat acctcacaga catatacata cacacatccc 60
tatatacata gtcattaagt tattaattag tctctgtata aaacgtttct acattagtgt 120
tccgagctag gccagtcag tccttggcat attcacagta gcagccctag ggcttggccc 180
atgggcgggc agtgaggagt ttacagaacg gccagcccag cagtgagcac agatgtcctg 240
ggctgctcac cctccagtc ttggtccctg tcttgacata ggaagaacag ctgctcagt 300
caagggcaaa aagatcccat gccctaattgc tacctgggtgc cccaggtcct ttgtgcggtg 360
gcttcaggca acccggaag tcctagagaa tgctggccag ctctgtggag tctgtatccg 420
agcagcctga gctgctggct tcatctcgta aagcctgcag agctttcttg ttctgtcgcc 480
gcttctcctc atcaatgggg tacagcttga agagcagcag gccagcagg atgaggatga 540
taggagccat ggtcaccagc atcttcagt taaacttgac ctcttctggc tgggagcacc 600
cctgcgtctg gtacttagca nagtcgagac tgagggtaga gacaccag gagactccag 660
aggcaaaactt ggtgaagaag acataga 687

<210> 1045
<211> 562
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178819

<400> 1045

```
acccattaat cagatttatt atcaattcaa tttgaaggca attttcaacc ttttaataagt 60
tatattcata tctgagattg ttttaagcttt ctcattggaga aaaagaaacc aggcagcagc 120
tagagctgca acccaagttt tcttctgctc atccttaggc atttgtactg tgtggaccga 180
gtgactgggg ccaggtcttc tttctatgaa acagagtctt actgtgcagc cctcgctggc 240
ctagaactca ctgtgtagac cggctgctgc ctctaagat ctgagatttg gttgatattg 300
tcctctagct gctctggctc gttactgggc agctgatgca caatttcttc tttgtaagat 360
gccatggctt cttcatagag aacttgaaaa atctcacact gaattattatc ttgtagtttc 420
ttctcgtgat aacccttgt ttcaagtcgt ttgtacaata taccattgtc tgtcctcaac 480
acgaacacta tatggaacca gcgttcagga aagaaatcac aaccgtggta atcaacgatc 540
acgccgccct ctgtcatctg ag 562
```

<210> 1046

<211> 603

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI178828

<400> 1046

```
cagagagtaa acggtgtcat catatcaact tggaaacagt tcagacaggg cccggctgtg 60
ggcctagggg aaatgtggct tttatttcct ctcagggaaa gaagtaaagg gtggctttcc 120
caggtacccc aacctaaggt aaggtgggtg tgctccagag gttggggcta gaattgccag 180
atcattccga cagactctc tgtgtccact cgctggcgct tgatgcaggg aggggtgtagg 240
tgagagtcat tcccctggag tagcagctca gtatcaacag aggcacaagg aggtatgtgc 300
tggtattcac aaaatggaag gcagagcagg tgccctgagt gaggagcagg actgggtggc 360
cgatccacac ccagtgtctg ccgggtacaa ggccctgactg ctgtggctct cctcccaagg 420
gccccagggg cccagaagca tcaactgcgtc ctatggctgg tcccttaaat gtccatctca 480
aactgtgact cttcaccacc tgcccgtta tcttccgggc tgetgtgcag atggctctgg 540
ctggcctgca tgggaggctc atcgttggtg gggctagtga cccctggaat ggttggcaag 600
tcc 603
```

<210> 1047

<211> 380

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI178850

<400> 1047

```
cactgcaaat tgtttattaa aacacaaagc aatggacagt gaaaacatcc tgactttctta 60
ctttttggtg ggagtgggtg gggcatggaa gggatagaga cggatggaga cagcccagaa 120
ggagcgacag ctctacctac ccctgctgct ttcttgcca gccaggttca aggtccctca 180
ctacaccttg ccacgctgct gtagatgcat ggcgtggccg agtcaggctg gcctcgcagg 240
gagagatgga aagaataaag cgctacaaag gctaaggact tgacgcctgc tctccagaac 300
tggattccac acaaagcagc caagttcata ctgagggaca agccaggctg ggccaacagt 360
ggttgaagag gctaccctga 380
```

<210> 1048

<211> 309

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI178868

<400> 1048

```
tttttttttt aaactttttt ggtgttttta attccaaact ctaatgtgat catcctttac 60
ctataactaa ttcttcaagt aaggtagttt ttgttttggt tttcttaaga gggaggggag 120
gcagggatga ggacagtagt tgagtttgga gagaggcaac ggtgacggga ggccctggga 180
gtgccagatg gccactgcat ttctctggaa gcagtcgaga accaagatgc caatgcaatg 240
gttttctctg agtcgcaagg ctttggcaag gacgagtga gtggcttggg agcaacagag 300
cctcgtgcc                                     309
```

<210> 1049

<211> 340

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI178872

<400> 1049

```
cacttgtatg aagttcaacc ttatacaatt ttaaggtggt atgtttggta gtgtatctag 60
aatctttaaa aagttgagtt tttggaatgt acagtatatg aggtaaaatc aagattacat 120
taagaattgt tttctcctct gcactaacat tgcaatgagg ctcaaaggc aagtacacta 180
ttaaatgaca ttactatca aaaataggag ttcatattgaa ttactatgaa taacataagc 240
cactgtgtgg cacatttcac catttttagac attcaactct atagaaatct ctgggctctg 300
acactcataa ctcatttgta ctgccaaatg tggcacttaa                                     340
```

<210> 1050

<211> 633

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI178944

<400> 1050

```
tgtgtttttt tttatttttt ttcttttttt tttttctttt tttggagaca ggatctcact 60
atgtagcccc taggtggcct gaaacttgct gggtagacca ggctagcctt gaacttaaag 120
aaattcacct gcctctgcct ctggagtgc tgggataaaaa gtatgcacca ccatgcttgg 180
cagtcctgga atgcctaccc cctggccacc atgacatagg tagaaaagca gactgaatcg 240
ttcctcgctg gcaggtagg gtctcacaga tgaactgaac cagtagatgt tctgcacctt 300
ctgtgctaca ggaagagaac tcagagctgc ttccaaggct ctgacgctgt gtgcagggct 360
agaggccaat ggtataggag cgaccagtag ggttgtgaat agaagaacag actggcgctg 420
tcaccgcca ctcgtaccac accttcttag aattgctgca tcgccagaaa cgcacacaga 480
tgttctggcc ttcattgcacc gtgatgggct gcttgatggg gaagaagatg ggggaaccatg 540
agaacatgcc aggagagtgg gtctctgggc ggataactcag agtgatgtcc cggtaaagca 600
cagtttcaaa gtagcctgca aagccatgaa gca                                     633
```

<210> 1051

<211> 570

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI178968

<220>

<221> unsure

<222> (1)..(570)

<223> n = a or c or g or t

<400> 1051

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aaactgcaca gcgacattta ttgttccagc ctngaaaaaa catccctttg aaatttcaca 60
cagcaaagca agttaaaaac ttcactcatc aaataaatga taatttaaac aagaacttgc 120
taaagaaacc tcatacaaac aatgcttttag ggctgatca cttaagtcca cagggccatt 180
atgaatttaa atctgcaagc cgttttccta caacaagagg gaggaacatg tttccttgac 240
tcaggtgaca cagaaaagaa atcatgattt ttttcttttg ctgtaacagg cagacattga 300
tttcttggtg tgatcaggaa agatggaatg actgttggcc ttctcttgct gctatcaaca 360
gtttgtcacg cattatctca atgctcgagt agtccggtaa cttaagatag ttcacacaag 420
tcattacaga tggtaagaag tcactctgggt tttctgttga ttcaaagtgc ttccgcacaa 480
tcgtcagagg tggattttaa ctccgaaatc ctccgactgg caatcgtggg ctaccagtca 540
caaactggag aaacaacctc tcctcgtgcc 570
```

<210> 1052

<211> 445

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179093

<400> 1052

```
cacacccaga gtacatgacc tctgtacaaa gaaaaataga aaaggctctg acgatcacat 60
ttgtttacgc tacataattt agaatgaaca ctactgggtg gggttttctg ctttgaacc 120
taatgttttt agttctgctg catttgtggc acgagatctc attttccttc cttacaggta 180
aggacattgg cagcagcaac attacaattt aaagggtaac aggttacaga tgccttaact 240
gtactgcgaa agatcttttc ctctccccc tcccccttca ctctctccat gacttcctga 300
aggaaatgta ggtacttttc catgggggtg cccgttttga gagagcacia agacaaggta 360
acatagttct agttccctca cactcatctg acaagctgct tactgacact caagacagtg 420
tcttaggcct aggacagcca ttttg 445
```

<210> 1053

<211> 467

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179099

<400> 1053

```
ggaccattta aaagagaaat ttattgcctc aatattcttg gggcctggaa gttcaacatg 60
ttagcagggt gctttctctt gagggccctt tccttggtgt agacggccat ctttctctgt 120
gttcacatgg tcttcacttg attctcacct ttgtctgat tttctctgag gatagcagtc 180
atatcagatt aaagcccatg ctaaggatgt cacttaggta tttatttccc aagacaccaa 240
gacagtcacg ttctgagggt gtgggaactg ggacttgaac tgaagaacta aagctacagg 300
atttgcctct taagagaaat gaaatgtatt tattgagata atatacttaa tagcccaa 360
gaacaaactt actgaaaatt ttaaccataa ccgagtaaga tgtataatag attcaaatgt 420
cttataaata tatattatga tattttgaag tgccttttcc tcgtacc 467
```

<210> 1054

<211> 429

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179100

atccaaccac gagcttatgc aaggtaagta atttctatga caccaagtgc caatcactgc 240
 ccgtccacac tgcattcccc tggcaggatt ctgagaacat ttccataaca tacagatttg 300
 gcatggctcg gaaggacaga aaacgagaac tgaactaaaa tcattgtaat aattctgtat 360
 aaagcataca tagtacgttg tcttattagt tatcaacaac aacagaaaaga tttaaaaaca 420
 aagaccacct taattatggg gagaacctca tcatagaaaa atgttcatca tttgtatggg 480
 attggcagaa acggataagt tttgttgggg atgagggcag ggaagacata taacttgaat 540
 ttattcatct aaatttgcct cgtgcc 566

<210> 1058

<211> 541

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179236

<400> 1058

gctgtggatc tccatggtga gtttaatggt ttccggaaag agcaaggtag agcacaggag 60
 gcagcagcct ctgctgtagg cgcgcccacg gaaagcggct tggagtgtct gaccagcaga 120
 agcctcttcg gaggcggcct acgtacacac tgagctccag aaggagaagg atcctaacca 180
 agggccacca ggaagcagca agcaaggcct agttggcaca aagcagatat ccagtggccc 240
 gggccctggg gatcaacctg ggggtgagatg ggaatgaac acagattctc tgcaatcaga 300
 gagtcagccc cgaggccatc cctgagtctg agctggcagc gggatatgaa tttcctgttt 360
 cctcttctac cacttaggaa gattttttaca cctccgcccc cagctctggg acccaaagga 420
 agtccctatc acatggccat aggctgcgag gctgtgtcag ggctcggcag gtctatcaga 480
 ctcaccagct cacataccca catgggatgc tgaactggga aggagcggga cacagggcgg 540
 t 541

<210> 1059

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179264

<400> 1059

aaatttctcc aaatctattc atgggacaac agatacacat ggggtataaat aaaatgctca 60
 tacaactagt tagtgtggtg agttcctggg catcctaaca ggcccgtgag caaaggctgg 120
 ctctccccta ctccctttta tgtgaataca gacaggagtc cttgggctga ggacacccca 180
 taccctcaca cctaacctga atacctgccc tgtaagatga tgaagaagg gctgtgggta 240
 gagagccatc ctccactttc tgtaagattt gcttgcagga gaaggtcgga gcctgagaag 300
 ggcattctctg aagaaagatc aaggagtggc cagtgcgggg gttgctctgc ttgagccatg 360
 tggttcaggc aggaaacatt gctggggggc aggaatgtat gttctgagct ctccaactgg 420
 tttgtgctgc ccattggtag ctctggctgt agggcagaca gcttcggctg atgctgggtc 480
 tcgctgggca aggcacgaat cttgcggtgc aacacaacat actcagcggg cacactcccc 540
 ctgcat 547

<210> 1060

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179300

<400> 1060

ctagatttaa ttactttatt aaaccgacat ttctgtaatc aacaacaact acttagacag 60

```

accactgct gtctgattat gtccataggt caggggtggt ctgcttacgc atttgggtgcc 120
tcataattaa gttcagctaa cactagggcc tatagtttgc tgtcagttag accaggtctg 180
gtcttgacag taaagccacc atcaaaagct gcattgagaa cttcatccag gcagctcgct 240
gtgacaaaac ttagatcctg tttgacgttg cttgggatct cctcgaggtc cttttcgttc 300
ctctgcggaa ttatgatatg cttcagtcct gctcgggtg ctgccaggac tttgtcttta 360
attccaccca ccggaagaac aagtcctctc agtgtaattt cccagtcac ggctacatct 420
gagcgacaaa gccgcccact gaagagttag gcgagacaag ttactatggt aacaccagca 480
cctcgtgccg aat 493

```

<210> 1061

<211> 632

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179381

<220>

<221> unsure

<222> (1)..(632)

<223> n = a or c or g or t

<400> 1061

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tacaaaataa tttattacag caaacacagc atcacaagac tatgtacaag cacaaagcac 60
ctgactaccc tattaaggaa ctctcttctt ccccttggcc ttacggacct cttctatcag 120
gtctttttaga tactgaatct ctttggcgag agaactctgcc ttctctttca gagcctcgct 180
cttcttttct agctctttac actcgccagt gagggcttcc tgctcagccc tcttcttctg 240
gcggtacctg gtagctgctg tcttggtttg ctccatcttt ttcagcttct tatccaactt 300
ttcagctctt acttttagctg tcacactaac tcaggtggg tcataagggt tgggtcgaga 360
accagagga acactggag aaggcagact gtctggtggg gccctggagg tggaggggct 420
gtgttgggga gagccaggt aggactcagg gctcatacag atgccactgt cactatcaga 480
gggagtgtct tctccttta cactgaag ggttagagta atataagcag cagagtcagg 540
cttctatct cttcagaga tatcaacct acttcncagc tctaaactaa aggaatgatc 600
tggagtggaa gacagaaacc tggggaacaa gg 632

```

<210> 1062

<211> 450

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179415

<400> 1062

```

aagtcgcagg cagggcacgg atggggaagg tctacatctc gttcagggtcc agcaggggtct 60
ggtccagcat ctttgtgta cagagatgct cctctttggt gcacttcagc ttatcttcca 120
agtcacatca ggtcttttcc agtttctgca aagcagtggc aaggcgctcc tgggcgcggg 180
ccagctcttc ttcaaccagc tggatcctgc ggttcaagga ggccacctca gcttcagcct 240
gctcccgggc ccgcttttct cctccactt cccgctggag gcgctcggcc ctctcctccg 300
catcatcagc ctgctgctgc agaacctgga tcttgcgctt taccgctcag atggtggtgc 360
tcccgcccat ggtgctacc cagctgcttc tggaaatcag gttcctacct cctccgctcg 420
gcgtttagtc cgcttttcac cctacttccg 450

```

<210> 1063

<211> 490

<212> DNA

<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI179498

<220>
<221> unsure
<222> (1)..(490)
<223> n = a or c or g or t

<400> 1063
ggccaaagcc atcctcatcc agatttatatt cctttatgat cattaagact gtcacttaaa 60
caagtagtca aaaatacata aactctgatt ttatagactc taaaacatta aggtacaaaa 120
agtaagtaac atctacaatt agcagaacat ttatgacata taatttcatg tataggaaaa 180
caggtagaga ggactacaaa taaattataa cctgaagaca tactataacc tgaagacata 240
catataaaaa aagccttggg ttatttatta gaatctccca gaaagggtgaa tgatgctagg 300
acactatcaa caatgtgagc acaatctgac agcattttct tccacttcta ggctgtgcta 360
ctagcttaag aggcactgga cacagccagc ttcttcaa at gatccatgaa cacctgcagg 420
ctgacatcgt ctgtcaggat gggcgctcca gtttcctgtn cccaagcata caggttattg 480
tgtgtctgag 490

<210> 1064
<211> 368
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI179519

<400> 1064
aaaccctca attttagcag cttttaattt tttaagaaac tgaacctata tcctgtaattg 60
ttaagatatt ttatatatag ttttcagcag gataaaaaaa cgtaagacta tttgaaggca 120
agaacattta ctctctcat tctgtgtaag gagagcaatg cagcagggtgc gtgacaaaaa 180
tattatagac tagatatggt ccaaagtc at tccgtttgct tgtttaattga tgttcaaatt 240
tcattggcca gttcttccgt ttctgcagaa ctatctccgt taactgtgat cttcatatcc 300
tcttcatatc caggaggcat gaaagccaga gcataaggga aaagcttatg acaactcacc 360
ctcgtgcc 368

<210> 1065
<211> 322
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI179539

<400> 1065
gaattgaaca ccaaaatttt attaaaaacc agtctcacat ttcaaagtgt atcttacaag 60
tgaacagcgg ccaggtgata taaataagga ggaggaggag gaggtcactt ctggagaaat 120
caaattcctc aggacagcag tgacacaaga gcatccagga acttgctccg gtctctcagct 180
ttcagctcaa ttactgagag gtcaaagtag ttgtgtagag tccgggagct ggtgctttct 240
gctgccttct caaatgccg accaaaaaag ttctttctat ccgagctatc agtctctgga 300
gggatgccca ccacagtcac tg 322

<210> 1066
<211> 564
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179570

<400> 1066

```

ttgaaaaaag gttattttta atggatacaa agttgaagtg tgaaatgttt tcaaaatata 60
tttctacaag ttactttcta gtgaaagagc aagtatttgt tagcaaaagc agtaaaactg 120
aaggggatta gaattgtggc tgcaagacct cacatgtaca ctgccatcct tagatgtcag 180
ctggtcctaa gtggcaccct taactcacia atgggactca cactgaatgc ttgggaattc 240
cttccttttt gttgggtttt gtttttaaat ctttctccaa caaaactaat atcaaaataa 300
gccaaacaaa ggaccgcacg ggtccacttt aaagtcaactg acacttttcc tcgtagggac 360
ttcacacagt gaacttcctt gactgctcac agtgaagagg cgtgaagagg caaagtgagc 420
aaatgcatac cttttgtaat tgataacatc tcttaagcct cactttattc gtcctattga 480
tttttggcct gaattaaatg taaatccctg cctcatcatc aatcaggcac ttctcctctg 540
agcatatgga aacacacagc tagc                                     564

```

<210> 1067

<211> 613

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179610

<400> 1067

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acaaaaaata ccattacact ggtagaactg gggaaataac aaaaacaaga cagaaacaca 180
agacagaaaa tctctgcaca ctgatataca agtggccatg acgctggggg aaagcagtca 240
tggtcagtca acatggacgc cgactaccaa gggcactggg ctcagaacag ccgcctctac 300
cgaccacagt tctgggggctg tgttcagaga tttggggctg ctgggtttcca agttcaggcc 360
cctggctgtg cttttgggtga gggaaatgtg ccaggcatct ccttccattc cagagagaca 420
aaggaagaca caggaagggg gcgaggaacc ccaaaagcct tcttagaggc ccaagaaaag 480
agagccaggc aagattctcc cctgcagaga gaaggctaca tgagacagag ttcacagcct 540
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aactgagtgt tga                                     613

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<210> 1068

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179709

<220>

<221> unsure

<222> (1)..(531)

<223> n = a or c or g or t

<400> 1068

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cttcagtgtt cctcatcggt tcaggcacct cgccttggtg caagcatttc caggcggcct 180
ttgagtgtca gttctgcagc actgcttctg cagcgcagcc cctgccggct ggctcgcggg 240
gacaggctat agcccgcggc tgcagcagc acagtcctcg ctccagtggg catctcgctt 300
ctctgccacg agtttgatga actgtgagtg actggcatac agcttgagct ggctcgctgat 360
gtccacccac ttcaccttcc ccgcatac tccagcctcc agcgtgaggt tgtccatcgt 420
ctcncctgtc tcatcatggg agttcactgc ctcagtctcc atccatgcgt tgtcagtgtt 480
ccgagggtcg tcgacatagc ccttatatat cagcagatgc tcctggctga a 531

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<210> 1069
 <211> 444
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179750

<400> 1069
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 cacgaatggt ccatgacttg aattttctga aggggtgaca ggccatattt ttggatcacc 180
 tgccactgct ggctgatctg catctctgtt ggtttggctt ttgttggttg gtttattttt 240
 gagacagggg cttatttatg tagtccattc ctgtttcaaa cttcctgtat tgctcagggc 300
 aaccttggat tcttgatcct cctgcctcta cctctcaagt gctgggataa catgctttaa 360
 ctggcccagc tgaataacat cttttgttta aatcctgtca gccacctgga agatagatac 420
 cttattagtc ccatttgcag atga 444

<210> 1070
 <211> 577
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179857

<400> 1070
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 atcctaaaaa tgacaggtgt ggacgctcct caggaagggg cgagcgtggc tggcagctcc 180
 tgtgctcag ttactcagaa gcagtctgtt tgcagtctct acatcccatg attttgaaga 240
 ccagggcccc tattactgcg ttcctatcaa aacccatagc acagagggtt tctatttttt 300
 tgggtgtattc tggactagac actggtgctc cagcatacac gtgtgcccac agtcgagctg 360
 tctgcttgaa catttcagga ttttgtttgt actgatttgc tactactgca tcttgggggt 420
 catctgggtc tgcagcggcc agcagtgtct gcaatgacaa taatactgtg cgcagagtca 480
 ttgctgctgc ccattgatct ttcaggatat ccaaacaat agcccctgtg acggaactaa 540
 tattaggggtg ccatatttta gtgataaacc ggacctt 577

<210> 1071
 <211> 458
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179870

<400> 1071
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 aaaagtgcaa aaaagccac agttcaacag tgcaagccac tggcacaacc caacccggag 120
 ggagagtcag tgcccagtac caaaaaccga ttcattttta attaaaaatt tcaaagttta 180
 tataagttta gctgtaaatc tattatcaaa aagttttaag catgtaagtt gcctctaaat 240
 gacaggggtt taaactgcaa atctgccccg agtgggttaac ttataaactg gggccctttt 300
 aaattttaca tattttaaat atccaagaag cagctgattt caagtctgt tcaaccttcc 360
 ttttctgctt ctgctctggc tgaaaactga gaaggaacct gagctttagg tagctggaaa 420
 attcctcccg ggtgtggctt tatgtgaaca tttaaagg 458

<210> 1072

<211> 568
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179953

<400> 1072

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gatcattaaa gtttgggtatt ctattaaaaa ccttatttaa ttttaaagta tacaaaataa 60
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ccacaactct tatttattgt tacagaatgg cttcccaacg acattcttgg caggaagaag 180
tgtcccctgt tggatttgtt gactgtcatc ttgtggacaa cacatcaggc agaatgacaa 240
tgctaagggt caacttgtcc tagaaaagtt acacattgac ctaaactagt ttcttctatt 300
ttttccaaat atcaacattt ctgtttccag tttagaaggc aatgctgaaa agggaggcaa 360
acagacattc aaagtagaaa aactcagttt taatcaacag gatttagagt ctagaagttt 420
catcggttct ttgaaaacca ccccatcttg tttctgcacc attaaattgt accatggcag 480
tgaaattccc aagcaaacct atgaagtctt ttgatactga ctgccacatc ccacagctac 540
agagtagacg agctgggggt ggagggggg 568
  
```

<210> 1073

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179979

<400> 1073

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aaatgatcaa agagatcctt tatttaatgt agacagccta gtaagtcac aaataaattt 60
ataatagtta gatgcctctt aaatatacat gttatcttct gaagctaaaa gtaatatgca 120
ctcaaccagt ttttaaaatc tatttggaaac attaaacatg ataaaagtag aaaaaaaatc 180
tcttatgaag tctctacga aaggaaattg tgacaagttc ctgttaagac agaaaccatt 240
ccatctccaa gggagaacaa gagaaacatg aatatgaaca gaaacaccta cttcctgggt 300
ttatcctagg tagaccaact ctttacagtt attttctgtc ttccctggat aaataagaat 360
cccttaacag cagcccgga attaaccaat tccagtgaag accctgagat ggctgccctg 420
cagcaggttc ttgccttttg cagtcaacaa catcttttac aaagcacctt gacttatggc 480
aggcgtgaca aaaccaggtg aattagttgt cccagccag ggcccgcca cctttagcct 540
tctaggcgcc actgttggga aaaggagcca tcacagatcg ccatgccgac gtagccc 597
  
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<210> 1074

<211> 667

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179988

<400> 1074

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gaagagaaaa tctctaataa tttattgacc ttcagtttca catcgtgaaa aaaaataaca 60
gttttacaaa acctcaaaaa tgtagtggaa gcaaacaaca tacgaacacg accgtcttct 120
aacttctaca gggtttggtt tgtgaaccac atattcaata gccaaagagag ggatattatg 180
cggctctaata cactcttatt cagacaggtg tcaagcctga gaaaagaggc tccaccatta 240
tgccagaagt ggaaggctgc ctttgtttat ccgtttccag ggcaaccggc tcacaaaata 300
agaagaacct cccctgtctt atgccagggt ttttgtgtgt actgtgctgt gaattgtatt 360
tgcttcaaag tgtgggacat ttcacagggtc gagaatggc aagtagcagg cccgaatgcc 420
tagatcaatt gaatgagcgg ggagctaga aagttccct gccggctggg ggcccacct 480
tgctgggcag ctccctctgg ctcacacagt aattaacaga ggattcaagg ccgggcaca 540
actttgaaac agctgcagag aattctccct gctctcagca gcagtgcagt gaagatcttg 600
  
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agacagattt gcattgtaaa ctgtggagct gagacagcta cgagacaact gatcatacca 660
ccagggt 667

<210> 1075

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179991

<400> 1075

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gccttttaaat ttaattttat tcctaaagtt gaaattacta gcaggtagca ctaaaaatac 60
accttcacta tacaaaacat tgtaaatga ttacatatta ataaagaatt tagcacacat 120
acactttctaa gataagaagc tagatgcagc ccttgctatt aaaagctgta cccaaacaaa 180
aatggacggt tagtctaagg cccgggcagt ggactataga atgtcagttg tctcccaatt 240
atgttttaaat gcagaaatag caataatgtt gaaacgtaca ttcattaagt attagcattt 300
agaatataca tggctaatta ggtgaacatt ccgagcagct acggctcagg agagcccaca 360
ctagcccagt cacgaacagt gagctcagtt cagagaacaa aagtgtcaaa cacaggataa 420
aggtaaagta agagacaggc gagtggcctg cacaccaca ctgaacagtc tggcttcacc 480
tagtgcctcag gggagacaag tgacagaact cagcagaacc tgtgaagcca tgtgtccacg 540
gttgacgggc ctatggcaca gcccagggtt ctaagactta ggatgaacct ttgtgcc 597
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<210> 1076

<211> 528

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180040

<400> 1076

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ttcttatctg catgctaccc actacagcca ggaagcatta aacactgttg gacacaacaa 120
gaagactacg ttgaggctgt gattcaaat cagtgcagaga aaagggtgctc ggtctctcca 180
cagtcagcac ggagggtttg ataaagtacg aggcactgtc aggcaccagg gctgtcggac 240
attgaggtat aaccaggcac accatgctga gggagaagga aggtgacaca tttcactttg 300
tgagggaggt taagcagctg gaaagttagg aaaaacttta ctgggagcaa gatgagagcg 360
aagtctttta ggaagagaaa ttaagttcat aaaagctttt ctaacagtaa cagggtctctg 420
ctacctttta ccagcccctg cccacctgcc ctccccctcc ccacactgag gctactctgc 480
ccacagaaga tgtggtcctt tgttctggag tttcctggag aaatatgg 528
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<210> 1077

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180187

<400> 1077

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gggttattat gtgtgtgctt ttttttaatt gtataattcg tttatacaaa gaaatcattt 60
gattgattta ttacagcct tttccaattt tcagttccac tggagatata tttcacataa 120
tggttaacaa tgacttgaac tgatcaccag taaaaccctg ggctgacatg gggcctctgt 180
ccttctcccc cttttaaaga gcatgacccc atttctaag caaacatttt gcagtgaaga 240
atcacgagct ttcttgaatg aagaaaacca accagaatta accaaatttc caacatgccg 300
tgtgggttct tctcaaattt agcatttgca ggtatgagaa accaaagcaa acagagttca 360
cattccccct ggccttctcc aacttctac ataccctcag gtcaggctgc tcttagctcc 420
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gctcctctgg ttcagccaga caattttaga caagttactc tttcccttcc ctttactatc 480
ccagtctcct gcctttctctc ttgcttttct gacaacacaa aaacttccac ccacccttcc 540
tgtggtttct ttcagtagtc tagaatacac taagtcattt catgggactt tatcacccctg 600

<210> 1078

<211> 545

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180253

<400> 1078

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atcaggagcc gcagccactg gtccgactct cttcttagtg ggagctcctt ggccattttc 180
ttcatgccat gcttggttgaa tttggatttt catccatgtt atgatggata agagttagga 240
tataagccat atgaagagca aaaaagggtat gcgtgggtatc tctgttgccc gaagatatcc 300
actctccctg agaaggatca agctgtgggt tattgggttca gctcgtgcgg aagcatgaaa 360
aatatcctca gcaccctgag tagcaggcag accttcttct acgtcaggag taaaagaaga 420
ttcctcatct gaagtagcag aatcaaatat ttcttcttca cttgtactct ccttgtaaag 480
aggtaaata actacataat ccaatccaat gtgactagct ggtcctgagt catgaccctc 540
gtgcc 545

<210> 1079

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180367

<400> 1079

gccaaatttg ttttaatatg atatatacat atacacacat tcacagtcac aaaccagcat 60
gacaagtccc ctcccttagc caggagagct ctaccacacg caggggtcct ggagatgctc 120
aagggcctaa gtatgacagt tttcacatgt gacatccatt agggacactt taatcagagg 180
tggcaagggt caccacgggt gtacatggcc cggggcctca tgcaggccca gagctctgct 240
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tctcatggat gtccaagtac ttggatacgc atcgggtccag acacacagac tcgccttttg 360
acagctctgc ctccctgtag tggggaggca cgcacttccg gtggcaggca ctggctattc 420
tgtgtacat gtccggccatc atctccacct ccagctccgc tgccagttgc tgggctctga 480

<210> 1080

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180392

<400> 1080

ggcccttcaa atttttacta agactgtgct ttccaacct gaaatgtagg gagtcaagag 60
ctatctcact gaggacaggg tttgtttgga tgctgggttc ctcacaagat gggatgatag 120
tttaacagtg gagttctgta aagtcaccag atgtaactgt aaaccacact gtgtcacaaa 180
aggctcacag cacagcatgt gtgggcactc agggtcagtc ggggtgagaa agggccagct 240
cctgtgtggt gtggctgtta gagcaacctg ttgacctggg ggcagaagtg accagggcag 300

aatgaaagcg tacagactgg aggataaggc tagtgctgtc ttgagggacc aggacccaag 360
 ctctccctca gctgtagact agtttgggtga agctgggtgc agcgaatgac atggatgtaa 420
 tcgcatagac cagccactgc ctggggccagc aactacaggt cccaagacag gcctgaggac 480
 ctcagctccc ga 492

<210> 1081

<211> 646

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180442

<400> 1081

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 actgctctat gagactcttg aggcggttgt aactgtcttc ctcgtacttg aagaacacac 180
 tccgcagatc cagctcctcg tacagtgcct tcacccgcgc cactttttct gggtccttct 240
 gcccataatt ctctctaaag atctggcgct gctgaggagt ggctcgtagc agacactgaa 300
 ccaccagcca gctgcatttg ttgtcctgga tgtcagtgcc gacctttccg gtcacactgg 360
 ggtctccaaa gagatcaagg tagtcgtcct ggatctggaa gaactcgccc atctccagca 420
 ggatcttcag ggcattagcg tgttccttct ccccatcaat tccagccatg tacatggcag 480
 ccgcgatagg caggtagaaa gagtagaaaag ctgtcttgta cttgacgata gatttggtacc 540
 tcttttcagt gtatctacca agatccactt ggccctgggg tgctgtgatg aggtcgagag 600
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<210> 1082

<211> 458

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI227562

<400> 1082

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 gggcacgaag tcgcgacccg agttgtaaac cctagagtac cggttacaga atagattcgg 180
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 cagcgaaggg atggtctacg agcgtaggat gctcctggac gagaccagca catgaaccgg 300
 aagcctcacc ggcaagatca tttgaccact aatcctcaac agatgaagtc tattcggccc 360
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 acagtcctag cactaccggg gcttcacagc ccccatc 458

<210> 1083

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI227699

<400> 1083

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 atactaaaat tttgacaata ggatgttgct tataactttc tttaaattgt tgttccaagg 180
 aactgtttta gtacatcttc cctaatagtc acagaaaaca aaaattcaac ttttaaacat 240
 gtctactttt gagtaaaatt tctgcacggt ttaaaccacac acggattctg tgttcaaaag 300

aacagcctag ctatctgtta tacaggttcc aacaaagaac taagggtcaa agcaaccctt 360
 gaaatcaaac agccgaacct tagaacatct ctgttctttt agccactcaa atacacacgt 420
 gctttgcaca gtcttgcaat gtacctcaca ctttccctca ctgtgccctg tggcttgctc 480
 tattgaaaca caacaatgca tgcttcttca gtgttctcac ttgttaaacc acttctgagg 540
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<210> 1084
 <211> 563
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI227769

<400> 1084
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 ctttattaag cactgaagaa aatacagtgc caaagaatcg aggaggcaag aaacctccct 120
 tggcagctaa gcctctcggt gaaatagagc tgggtccaga aaacctagggt gtgacatcca 180
 ccctgcttcg tgggtttcaca ctgcacagct gttctcacat tttgctcttc aggactctgt 240
 gagaggcttt cacatgcact gcattgagga tagaactctg tctccaaagg cttccatcac 300
 acttctcttt aaatctactg gccttgacc tcaggggagg aagctggggt ttaagttgct 360
 gtagacagc catttccaca attgatgtaa accattgcat agttttacaa atgaagtgtt 420
 ctcatcatg ccagagattt cagtcagcaa attgttctgt atccatttct aggggattag 480
 aagccttttg tcttcaaaca gacatttttt ccattttttg tcgagctttc ataggatgta 540
 ttgagagctg tccctatcca ctt 563

<210> 1085
 <211> 469
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI228042

<400> 1085
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 gtagttttca tggattttctg gccggatgtc acacacaaag gccaaagggt tatccaggac 180
 ttcatctctg ttctgtctca agtagttctg gaggatgggt atcttctcct ggggtctcct 240
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 atatttgaag gtcttgggga gggagtcagc tgaccgggag aagcaagacc tcttcagcag 360
 accttgagggt ttcttatttc tccttggggt caaccagtca cagagaaatg aagtcctgtg 420
 cttggaggaa ggagaggga agcaggagca gcagcagcca ggaagtgtt 469

<210> 1086
 <211> 482
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI228197

<400> 1086
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 ggagggggcca cgtgatcccg agaactcagg acaagggggc cagcgaacta ctcaggatct 120
 cagcagaagc ctgaagaatc cgcagctctt ccatccgcaa agcttccacc aaacagagct 180
 gacttatcag cgatcctttc ctttcttcca tgtcagaaac cttgcgcagc tcggagttaa 240

tctccgcaat gaaatcagag catattttct gggccacgcc caagcttgcc ttctcattcc 300
 tatcgggagat tacgtcacca atgagcacct ttttcagga cgtaaacggg tcggctttca 360
 gacacaacaa cttgagagct gtgagcattc tccaagatgg tccatcccat ccaaacgtca 420
 aatttctctgt gaagccatga tcctccaaga tggacagctt cttgtgcacc tgcttatcgg 480
 ct 482

<210> 1087
 <211> 567
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI228265

<400> 1087
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 acagcacgca gtaaataaat ccctcccaca tttgtacaa actacatgat tttgatatac 180
 aaagattctg tttttattcc actgacaatg tacaaccaac actatttaca atgcaagggg 240
 aaaaaaaatc aaaaaacaaa aacacgttta taaaccacaa ttaaacattc tgctactggc 300
 agccactata gtttaggagg tagctttaat taaacaaaat gaacagaagc cacatttccc 360
 aactcgtgtt ctaaaaataa tttacacaag ataaaaatta atcatatgca cagtatgtac 420
 agtttaataca aactgcaatc tagcttaagt ttctgtttaa agtagaacta agatggcagt 480
 gggtttgcta ctgactgaac acagtctgaa gtcttcttac agaaacacat caaaagccta 540
 taggtaagaa tcaagtaaat cttaaaa 567

<210> 1088
 <211> 461
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI228291

<400> 1088
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 gcaggagcaa gctggagata ggaggtgacc agggcacaca gtcctgccc tccatgagtg 120
 agcatcccca gtgaggata aaaaggaagt atccaatact gagtcaaatt catatgatgt 180
 tattggttga ggcacagcac taggaccaac tgactaaacc agaactgaag gaccgggacc 240
 gggctcaggg ggtaaccagc agactcccac attactccga gaactagcct aggatctacc 300
 aagaaaggac tgggagcagg gttccgtggt ggcacttagc ttatacaagg ccttgggttc 360
 cgtccacaac accacaagga aaacaaacaa gcaagctact tgttggtttt gaattcactg 420
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<210> 1089
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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI228540

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 ccaacactcg gacaggtcct gaggggaaat gaagttcatc agctccctca cttccaacag 240
 tgaggcagag aagaacacag agatacccga cccacttctt ccagtggcct caacgtagtc 300

atatgggtgt tcaaattgga cttctgcgaa ctgttcaagt ccctctcgag gcctaagaag 360
 gggatcatac cttctgtgag tgtcgaagta gttccatgaa gccctttcct tgtgacttgg 420
 tcacgggtcca tagaaaatgt gacttgcata tagtggttgg cttcatatatt ctgtagtccc 480
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<210> 1090

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228557

<400> 1090

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 gacaggtctt ccattagtca atgaatggaa atggatcttt cgtgaaaggc atagaaaata 240
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 gaacaaatgt gcccaaaagt aaacaggcgt ggatgtagtt tacggttctc catacactta 360
 catatgcaca aacgtcagca gggagactct aaggaaccag caacttctaa ctcaagttag 420
 caactacgca ccagcaaagc ttatggaaaag actcaatggt gtagatgagt taaaaagggg 480
 aaggagctgg ggaatgctat tcagcttgct gaaacaaggg cacgcacaca ccgtaaatga 540
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<210> 1091

<211> 611

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228596

<400> 1091

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 cctgcgtgtg ctgcagacat gggacacaaa aggttggatg caatcagcaa agagtgcaaa 180
 gcacctggga ggaagtttca aatgtctaga aaagttagtc agagctctgg accactcacc 240
 aaataaaaaca aaaagcaaaa acaaaacaaa caaaaacccc actcagtaca tctggcaaac 300
 aacttcccaa caacactgaa ctatctcctg cgaccataa gaacaattta aaatacccaa 360
 agtgctaaga cctcattagc agtactttta atctgagttt taatgtttaa tatgattact 420
 cgaataccct aaactgtatg acatgcctaa taacaataag ttacaaatat tcaacctaata 480
 aacttagaca tgatatggtt aatataacag acattgtatc tcagctaacc tttcatgtaa 540
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<210> 1092

<211> 592

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228624

<400> 1092

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accatgtggg ggcaccaaga catgaacctt ctgtcctcta gaagaacagc taacggaaat 180
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aaaaagtttt gcaagggtcat gccagagctt aaaattttga cgctttcctt tgcaaagtgt 300
aatggtgaag gtgtcaagaa gaccagttct cagagagaag actttaatga atatatattta 360
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ctgcacactc ctttgcaact ggacctgtga tagcagaacc tttcatctcg cttttattgt 480
ttactatgac ccctgcatta tcttcaaaat aaaggaacac cccgtctttt cttcgatatg 540
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<210> 1093

<211> 586

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228630

<400> 1093

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cctgoggagc ttctgagacc cacacatcag accagtctct tcacttcaaa ggccaagtat 180
gagagcagac acagttccta ccccagaggg tgctgaggaa acacgtccct gccaccctg 240
tcctccctca aagatctcag aaagaaaggg cagtatactg ggccctgggt ggtcaatcta 300
actcttggtg tgaagacctg ggcaaaaagg taatgggtct atttagacct cgtgtctaca 360
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gctgcacccc agataatgga tgtccggcca cattctggct agagatagaa atccaagcag 480
actgggtatg aatgcatgag gaaaccactt ggcccagttt ggggacgggt agtcaggct 540
cagcctgggc ccaaactttg gggtttctgtc tctcactacc cagtgt 586

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<210> 1094

<211> 509

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228676

<400> 1094

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cactacacgt ctaaaagagg atcttcagta tgccagtgc accaggacac atccctggca 180
caggtgatct ccagaagaaa agctgatggt ctagagagct ttctcctctg ccttcacagt 240
gctgactctg ggtggagggg acaggggtct ctcggagtgt atcactgagg gaccagttcc 300
cttagagagg ccagagcagc atggacacgg acgtgcagtc tgttttcaaa gtcgtagcca 360
gaaaaatcct cttttgctg aaggagtagc gttctgcctc ttgctacaga ctctgctctg 420
tctagcagga gacagccaag ctcatagcag gcatatggct ggacgtatga gttattctga 480
cggcactgact cgtcttttag cctcgtgcc 509

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<210> 1095

<211> 525

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228723

<400> 1095

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tcttttaatc ggcattgaggt tacttttact ctccactgga atgactaggg cccagttac 180
ctaattgtgg ctttacgcac ggtctcctca tctcccagga actgcatggg cttgatgggc 240
ttcaagttct tgtccagttc atagacgatg gggatgccag ttggcagggt cagctccatg 300
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gcagcaatca agaccctttt cccctccttg atctggggga caatttcttc attccagaag 420
ggcagtgcc tggcaatagt atccttcagg ctctcacagg agggtagctg gtcctcagta 480
agggctgcgt accttcttcc taagcagacc cttagtaaac aaaga 525

<210> 1096

<211> 487

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228728

<400> 1096

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gcaataacca taccagcaga aagcaaacat ctgcgaattc aaatcaagca ttttgaggga 180
caacagtggg tctgcctctc ctttccactc ccacagtgcc tcctgaggca gccatcctcc 240
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attaatcacc gctactgtac tccagtctta agagaaagtc agccaggact caacagccat 360
gcttgctggg cagattccgt ttgctgcctc cagcctctca ttcccgctt aattgtaggg 420
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taaagct 487

<210> 1097

<211> 550

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228729

<400> 1097

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aatattaagt tttaggctac cattatttat ttaaaaaagt gtttggtgta gaaggctgct 120
tttgccaact ttcttttttg gtaaggggtg taaagttcca tgtaagaca atacagatga 180
aagctgttga aaaaaaatct tcaaatgtac aaaactgttt ttttcttga taattaaaaa 240
atacataaca atttaaactg aaaacacatt aagtttagtg tgcatactta ctatacaatt 300
tttattataa gggactgcct tccatttagt taaaatctaa agaatgccat caattttttc 360
ctgccttatt tttctgatca gcaatagtaa acacaatttt atgacccttt aaagaatgct 420
tagataaact ataataccat agttcacatg aagcccttta aaacattcat gtcatagact 480
gtagacatca gggcaataag gaccagttt ttccaggaga ccctcttggc agaggattca 540
gtactgaata 550

<210> 1098

<211> 511

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228931

<400> 1098

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gattctggtc ctggcagaac ttacttttct tctcttggtt acgtttcaca tacaattcag 180
cagcagatta cccctcacag aaaactctga tcttcatttt aaattaactt gagaggacaa 240
gagaaacggt atggtggccc atgcctgtgg gccagcactt aggaggcaaa catgggaaat 300
caatgcagat tcaaagtcac ccaggggggt gcaccaaggc cctgggttta aaaagggaaa 360
tcaaaccaac ttcaccatca acaacaacaa cgccagagga gataagcaag caagtgtcca 420
gtgccacgtg cagttcgggt ccaatagttt acctcgagtc tcaaagagcg gcaggctgaa 480
gttgtgatgg aagggtttgt ggtggggccc t
511
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<210> 1099

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228959

<400> 1099

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aggacttgca cacttgatg aatgtaatgc aaatactgac aacacgaggc attcacagtc 180
acaggctggc tgctgctcac atcacagcag cgcccgatgg aaatcagttt atggaaaaaa 240
gcaaccacat tttggtctca tttacagata cccaacattt cagttgggtca atgaattcta 300
tacaatttta tacaactatg aaagaataaaa ggataaggct tacagaggta ttttagcagt 360
tgtaaaaata aaaaccaagg acacaaaacta aactcttaaa gctttctgta taaacttcaa 420
aagtatggtt aggatggaga cttagaggca acagaaatct gttaaaccag aatctagagg 480
tttgtcta at cagatatcaa tactgaactc aagagttcag gctttaaaag aggcgcacct 540
aaggctacaa tgggtatcca gcaaatcttg
570
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<210> 1100

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229035

<400> 1100

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tacaagttgc caaaatctac aagcataaca aacgttacaa ggacctcact gactctaagc 180
ataggaccgt cacacagaag ggagtaacta atcaacatac atccggatgg aaactcatgg 240
atatgcacag tgtgtttggc actgttcggt aatattggaa cattttgtca gaacgggcat 300
tctcgagcct tagtcacaac acgccagaat ctgctattca cattatgac agcatttcac 360
cgtcaaacia taactgttca gttttagggg gcaatctaca gtcggacttt agaaggaagg 420
taatccctcc atttcttcac atgccccatg ccactctgct agtgagtttg acttggtgtc 480
tttgtcactg tggagcatgt caagggaaac gatttaaagg gaacgccctt t
531
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<210> 1101

<211> 430

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229167

<400> 1101

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<210> 1105
 <211> 457
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229235

<400> 1105
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 tgtgttcttg aacgtagcac ttgtctacca ggcactgtag aagagaatga ggaaaagcca 180
 ggacctgctc aggagcttaa gggttgggtt ggggtgggata tggacagtaa cacttctaac 240
 aactgggtttt aaaataagaa tgtctttttt ccactgaaaa caaaattaat catttcatat 300
 tcactagtaa aggagctgct gggaaacaca atgcacacga gtctgagcaa ccctcggcac 360
 agtagcagtg ctgagcccgt gtgctgacag gctctccagg ctctccaggc tctcctacgc 420
 atagggctaa tatccagctt ttctcaacaa atttattc 457

<210> 1106
 <211> 414
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229240

<400> 1106
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 atttatgatt ttgtgctatg tctccttagc tcacagtttc cgggggctcc aggctttaga 180
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 cggagccttg ggctgggaag ggtgaagggt gaggaggagt tctcaggccg agcttagaag 300
 ggctttcagg caagggggat gcagatgcag ggagttgcgg gggaggggca tgaggcaaga 360
 ttgtttcccg ggatccctga gatgcctat attcaataaa atgactatga catt 414

<210> 1107
 <211> 482
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229253

<400> 1107
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 actctccaca accatagaac acaggcacag actgtctggt atgtgcagaa acggccaggg 180
 acttgtgaac agaaggcatg cacttagcgt tagtgaagggt tgacagttgt gtgacttctg 240
 cagctcagcg caggaagggg agcagctgac catagctgag tggacagagc tggcacagcc 300
 actgcctttt tagccacca gctagagtgt acacatacga agaggtggga aggcaatcag 360
 aaaccttcca ggagcctttt catctcctag aaggcataag cagcaaatga aacacagcat 420
 aaccttttaa aggaaggcta gggctgggtg tgtgtgcctg gtgtgtgtgt gtgtgtgtgc 480
 ct 482

<210> 1108
 <211> 501
 <212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI229307

<220>

<221> unsure

<222> (1)..(501)

<223> n = a or c or g or t

<400> 1108

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aaaaattctc agcaatatac atttgcaccc aagaaatata tgcagcatca ctgccgtctg 180
acaatgtcct gcactaaccg accgactcct gcacatgtgc gttctacttg gggactcaga 240
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ccaatgaaag aaacaactag aattcaggag catttgagga tcccagtgcg ggaccgagga 420
gggatactta gggctaccct gtgccacana acttacgcaa aaatttacct agaaaaacaaa 480
actgaaaaaa ctcttagatt t 501
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<210> 1109

<211> 493

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI229318

<400> 1109

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catttgtctt acatttaact catttgatgt aactgcaag ttcacagagc agttcctatg 420
aaactgttag aacctaccg agcctagtgt gacaggcctt ttggacaaga ccaagggggg 480
tacgtttgag cat 493
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<210> 1110

<211> 502

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI229337

<400> 1110

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ggggagttaa caccaatac cacattttct aagacgttcc tcaaggcatt ggtgattgta 180
atttaaaaat aaaggaattt taattagcat tggaaatcta aatgacgatg ggtttcaaga 240
gctaaaaatc agatctttta aaaaaggctt tgttttatth tgaaggactc aaacctgaag 300
gacgcctcca atagaatata gtatgtccca actcccaaat tagtaaatc atcatttcac 360
cttagagtag gagaactata aaatggaatc tctaaattat tacatatata aatacatcat 420
tttaacagtc atgtttgcta gcagaattat gaaataaaaa ccaaatctac attcaccgta 480
caaagaataa tgttcttcca ct 502
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<210> 1111
 <211> 535
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229416

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 agagcaacca aaggatggaa aacaactgga tcacactgca tatgtcccaa acaaacaaac 240
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 aaaatgtgca tgtttcagtt tacactatac aaaaatagtt aaaatacatt ccaggtaaac 360
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 ttttcaacat tgaagacatg agacagtgga attgggggac caggagataa aacagcacat 480
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<210> 1112
 <211> 555
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229502

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 tgttctccag caaagaagag tcttgactg cggatgtttt ccactcagga agaggcggca 480
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<210> 1113
 <211> 550
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229680

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 cagggggctg acgataggca gggaaagcct cccaggggct gttcagggtca aacttgcgga 180
 actcttgtgc caactccact ggctcagcca ctaccgctt cacctcatcg tcataacgta 240
 gctcaacata gccagtgagg ggaaagtctt tccggaaagg atgtccctcg aagccataat 300
 ctgtcaggat ccttctcaag tcagggtggt tgaagaagaa aactccaaac atgtcccaga 360
 cctccctctc ataccaattg gccgcgatgt gcacagacac tatggagtca atggctgtca 420
 gctcatctgc ataggtcttc acacgaatcc tagagttaaa ccgcaggggac agcaagttgt 480
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550

<210> 1114

<211> 393

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI229698

<400> 1114

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gccttgaggg ttagggccac ccaccagtgc cctgtatttg gaaggcccaa accattcacc 120
acattgaaca ctaggttaaa ataggtcttc taaacagtgg acaaccaca atggttaatc 180
aaaagataac tgatgaactc tcccatcagc tccctgcaag ctgcaggacc tcttagctct 240
tcatgatgta atcttgtcag agatggctcc agaaaatggg tcatgacctg catccgcacc 300
accagtagta gtccatggga tggtagcgta taaggggtgg cagcagtcag ggcatgggtg 360
acagcgtttt gacggagacg tatcgtggaa ccg 393
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<210> 1115

<211> 544

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI229739

<400> 1115

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ggggagacca agggaagaga acaacgcacc cgttaagtac agaggtcatt acaaggcaga 120
gcgatgctgc atcaagttac aaacaggcca ggctgtcaaa agagctgtgt aggttgaggg 180
tgggaaactgg gaggtgtgtt cctctgggct agcgtgggag tagggcttgc tatcagttcc 240
tgagctcaaa gccctgcagc aaccttgggt tggcaaggac gtctgaggca gccttatctt 300
atactaggac catcagcccc agagtgcctg gggccaccat gcagcatggt cagtttactg 360
tgggtccctt tcttacgggc tcaggagagg acttgcagct gtgcctggag cacctgtggc 420
cactgggcca tgaacatgca gtgtctgtcc cctaactctc aagtaagggt gaggcagcga 480
ctgctgaagc agttgccagg atagcgggac gtgcgtacag tgttcactca aggttttgtt 540
ccaa 544
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<210> 1116

<211> 395

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI229789

<400> 1116

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caatctgtgg cttgaatggg agacctcaat ataggctgga accacttaga atccaaaaga 120
gggaggaaaa tccaagggtc ctgaagcttg ggtatcactg ggcagggatc tgggactacc 180
ttggacccaa gtctgtcttc cacctgtgga atgccatcta gggtcagcgg acattggcag 240
ttcagttccc aggctctggc tgggaaaagt caagtttcac actgtggctg atatagtaag 300
ccaaaccttt aatggtagca gtaaagcagt tgacagtgtc ctgcacctac actgcactta 360
ctgggtggac tccatggaag aagagcctgg tggca 395
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<210> 1117

<211> 499

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI229832

<400> 1117
cccgggactt ggactcactg tattggttca cgtgggcttg atcccaccag cacagttttt 60
atgcacaaga cctctgtatg tgaggacca gcaaccagtc cccagctcca gatttcgaat 120
tccaactccc taggagccaa tgtgcaaagg caggaggggc ttggagatca cgcttccagt 180
ctcacagctg aatggcactg aggaagtcct cattatctga gtcttggagg aagcaggggtg 240
gggcaggagg gctggggggg gagaggatct gggcccctag ggccagctgg gacacagtga 300
gctctctgcc cttatgcatg acgtaaaagt ggaagtgaaa accgctgcta taggttgtat 360
gcctcagtga ccagtcgtaa cagggttgag catagtgtct gatcctgaag tggggaccgcg 420
caggattcat ggagatgaat cggcctccag gaaccagcac ccggttcacc tactcagca 480
cctggtccac agtgtggac 499

<210> 1118
<211> 545
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI229902

<400> 1118
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cacttccata cttgtcggaa cagtatgctt cacatcaata caattatttt agttcataaa 180
aaaaagacac gtgtctaaca tgcagcttac atacatgaca atctgcatta aactgaaaag 240
attacacaac agtttagaaa acattggtta tcttcaaaca gcaaaaaaaaa atgacaattc 300
tacaactaca gtttaaggca ttatcagcat attttaaaat caagaaatag acaaaagtgc 360
taatgctgtt cacagcttaa ttttcaattt atttttaaaa attcccttca tacctacgta 420
caaactagac tctgaaggtc atgattcagc taacgactcc ataataaatg ttctgtcaat 480
agaactagga ctttttggaa ccggacaact ccagacactt gtgaatggca aaggagaggg 540
attca 545

<210> 1119
<211> 546
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI229906

<400> 1119
aaaactttat tttacaagaa ataggaattg gaccaaagtc tttttataat ccagataagt 60
gttcataacc acagcaaagtg tactgtaca cactgccaat acagacttaa taacacgatt 120
ctgaactgta caagagttat ttattttcct taatctcaaa gctattttta gtagtacaaa 180
aaagccatat taacattttt tttccattag aaaacaacag gatgtacaaa actttggatg 240
aaaagtatgt caaattgcat ttagccattt ggaggaaaat ccaccactcc atcagtacca 300
cccaaagtgt ttttaggcag tgattaaaat caaaataatg catcttaata aatctcagct 360
gttaaaagaa caaacctagc aatatagaat acttttctac acagtatttt taactactca 420
gttcaggagt tatttttttt ttctttttta aaaaccatt tcagttgagt gctactacat 480
accaggcacc atatttggcc aactaggggt tttcgaacaa gttggttaaa gtgggaaaaga 540
cccaca 546

<210> 1120

<211> 450
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229979

<220>
 <221> unsure
 <222> (1) .. (450)
 <223> n = a or c or g or t

<400> 1120
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 atgacaggtg agtcctcaac aaaatacata tgggtggcac ataaatggga ggaaccctgg 120
 gcctgctctg gaggagatgg atcaagaatc ctaaggcact gtgcttctgt ggatgccttg 180
 atgaagccaa agagctggca ctgtcaagct ctggtttcca tggccactgc cttcgggtgga 240
 gtttagttct ctcccagccc ctctccttg gggcagggaa ttttagtata tgggtgccttt 300
 atcacaaggt cctggggtct ggaggtagaa agtgagatgc aggagaagaa atggggcang 360
 gtgataagaa ctccacttcc tgcaagtagg aaggccccag ccaaccagat gccacacgcc 420
 ccacaaggtc agaaatagca gcctcgtgcc 450

<210> 1121
 <211> 516
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230046

<400> 1121
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 acaaaaatgt acatacaatg ccagaattcc ttaaaagcaa ctggtatcac attttcttct 120
 gcataaaaca tgcattaata tcaactgcc catgttgacc caaaccatct ctatgagaat 180
 agtaagaaaa ctagttgtga acaggtacaa aaagagggtt tctgggtaag tggggaacct 240
 ttcttaggca agcccttcaa caatggcggg ttgcattttt gctgctcact gacactactg 300
 ctacaccttg gtgctgacct ataaagggca gacaactttt tggtagttaa atctgatata 360
 tgggaagata caaattttga ggacaacatg ctggtaacat gaaaagtgc actctcaaata 420
 tcaaaacaac ctacagacttg gaggatccct aggtgttagg caccggagggt ttttaactga 480
 gccctatcca ggaggccagc tcagtgcaca caggct 516

<210> 1122
 <211> 544
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230056

<400> 1122
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 cacaacgggt tacaccggat cgctggcaga gacctttcag aaactgtagt cactgagttc 120
 attatgagtc aagggtgcttg tgggttggtt gaggaagaaa agatcaacac atcatacata 180
 aattcacaata gtgctgaagt tacacacggg aaactaactt tgaagtaatt ctggtggtaa 240
 aagtatcaac aatgaagatt caaggagac caaaccatcc catgaaagga ttagtttaaa 300
 tcagagagca aggagagcac gtcaccccca aaagccgaga ccatgactcc aggtctagtg 360
 cacaccagga acatctgacc aaggaggtcc ctttccttgt ccatcatttc agttctatcc 420
 ccttttcaag ggcacgaat gctctgaaag tttcctgtgt cttggcttat acacatatct 480

acctccctcc cagaaagaaa gctcaagaaa gcaggagtgt gcagtctttc ttgttcctgg 540
ctga 544

<210> 1123
<211> 418
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230074

<400> 1123
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ccttctaaca ggaacagatg accatagctg agtaattttt ttcattcagcc agggaaaatgc 120
ttccttagtc aatgtttctcc aggcccttgg acacatagta gcgattgaca ccagagatgc 180
gtctatcgcg ttccatcaaa taccattggg aatgaactcg agcaactctc ttttccttgc 240
ccccgttggg gaacttgtgg atgtacgcag tggacacccc ggggatgacc aggcacaccc 300
ccataatggc gaggccaggg agaattctga accacatctt ctcaccgtta ctcacactcc 360
aacccgtcac cgttaccggc tcctcagagg tgaccggggg cttcaccgcc ctctgtgcc 418

<210> 1124
<211> 531
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230134

<400> 1124
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atgcgatttt caaaatcacc aatccaaaaa aaaaaaaaaa aattgcttac ctcgaaaaatc 180
aagaaattcg aatgcagact tatctttgga aactacaagt gactacagcc caggatgatgg 240
tcgcacactg cctttggctc gccgtgtcgt gtgcaaatgt gcagggcgca cttctgggga 300
gtgacgttag ggcggagggg gccatgcgca ggtgcggcac atttgagggg ctctgtcaagc 360
agtttggggg ttgataaccg acgttctacg tccattgggt tgggatgaaa ttatgtgtgc 420
ttgatcagac agatgtataa aattgatctg agcttgggtg gccatcccag gtgtctctgg 480
ggaagtgact aagaactaag atgtcacctt gctagcacia gccctcgtgc c 531

<210> 1125
<211> 501
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230171

<400> 1125
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cagaaatgag aaaggaaaaa atacttctta cattttcaaa gaacagaaat agcgaagtag 120
attcatatac attcaacata tactgcgcgt gttggctact acgatataaa gcaatgggtga 180
gcttgaaaat agttcgcaag atggcacggg taataggctc actggctttt gtctgggtgg 240
ctctggaggg tgggtgtctgc tcttccatca atccagtacc atgtaaacag gtcaggccga 300
gcgggggggag cagcaggacg gggctggagc atcagagttg gactgagctt ggaagccaac 360
aatagcttgc taagctttct tgaaagtcag acttctagct agtaattagc gacacctgga 420
gtggagggggc gattggagga tatgggacca tgggacaggt ccctagccaa gctctcacat 480
tgaaaacaaa tccgttcaag g 501

<210> 1126
 <211> 626
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230228

<400> 1126
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 gggttaacta caaaaacagc catgcatca cagtttggg gtgggggtgt aactgagttt 180
 tgtttaacgg cctaaccgaa aagcaaagaa acaaccattt cttctacttg tggcaagaaa 240
 agtaaatacat ggaactccta gatccttctc atgaagcagc tttaaaaggc agtaggtgga 300
 ggggtgccagt gtccacaaca gacgacggtc atgcacaaag tcacgggctg aacgaactct 360
 gaaaagcctc tacagaactg tttcattaga aattcaaaag catagatata aaccgtatgg 420
 tgtttaaaaa agttcccacc ccataaacac ggcctatcat gcctgtcttt ttatgggaat 480
 tgcagtacac agatccagaa tgctcatcag tctactgtga ctttaaccaa cagctgcaga 540
 acctggccga ctcacagctg tccatccagc acataggacc tctcaacctc cttgggatac 600
 gtccttaacg ataaagaacc agttgg 626

<210> 1127
 <211> 463
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230270

<400> 1127
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 cagctgctgg gaaccaaggg gaaggcctcc agctctgtca tgagcttgaa aggctgctcc 180
 gtccctgggt agggagtaga agggagcctg cttggctgag gatggttgac tcacatagtc 240
 cagtaagcat agagcagggc gaagactatg aagatggcca ccgagagtag catgttcttc 300
 cggttctctt gtcgaagcag ctttagctcc ttctcatatt tcgaggcttt gttcatgagg 360
 gcgtttttct cttctctcag agacctccga tctcaggac tcagctctgc cctgtggagc 420
 tgggaggtca cggcctccag gtcctttcga cactgagaca act 463

<210> 1128
 <211> 579
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230320

<400> 1128
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 actagccact gatggtacaa aaattacaca ctaacgcaat cataaaaaat gtaaaccttc 180
 aaattaaaca gtcaagaaat ctgtatctgc accatttcat acaccatgac agttgctagc 240
 tgtggctgca ctccaacgtg agggcttggg tggagctgct gtctgtgacc tgatgctctt 300
 tcacttggga aaaatgtgtc tggcacaagt tgagagctgg aactaaacag tgagtgtgag 360
 tcactggcta aaatgacaca cacatctcac aggcacactt cagttctttc tccaaatgtg 420
 ctcttggatg ggagtaaatg acaacaggaa caccgggtgt gagagccaca gccacacag 480
 ctgttcttga agaaagcctg aatgggtcaa tccctgcctg caggaatgca agatatgcag 540
 atcacggtac aattacgtga tttcctaatac tacgcattc 579

<210> 1129
 <211> 547
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230326

<400> 1129
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 atgaggaagt ggaaccccaa actggagact gcgccttctg ggacagcact ggacagggta 180
 tgtagtagcc tagagggcca gggccgtgat atgtacaggg gtgttctgtg tacccttggg 240
 tgccacatca ggccacctgg gtgccagtg catcttgatg ggccctgacct gctcagaccc 300
 tgcagggcaa ggctgagctc tgcgggcaca atagtaaggc gcccgtccac cttaggtggg 360
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 accctggggc agacctccta gagactctgt gtacatgccg gggaggccag ggtttcaggg 480
 gggcagcagg acctgggacc ctcccaggga gcaacggaga cggaaaggaa catgaaccca 540
 gactgct 547

<210> 1130
 <211> 551
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230373

<400> 1130
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 caccaggatt ttaaggccac atgtgcatct ggaaggctgc agtctaggac ccatgctgag 180
 acaagtctct gggaccgttt cttcacatga gggtttagcg atcaccttcc agccttgggt 240
 tcgaggtctc attaggcaca ttagcatctg tctgactttg aaatattgtc cttgaagtat 300
 ggcagctgga ggtgagaaag aaaattctta tttccaaact ctaaggcaag cttcttcggc 360
 caccggtcct acctacttca aaataagcca cgtgggttgt cttgagcacg tgtggaggtg 420
 actagaccgc agcagagcgc tgcggtggaa gggggtgggg caagcgtctg gcttccaccc 480
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 cagtcaataa g 551

<210> 1131
 <211> 496
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230395

<400> 1131
 aagccttata aagtgggtact ttattatctt tgtgacgatg ccaatctctc cgaaatatag 60
 catatcttaa atggatatct tttatctgcc agttaaaatc attttatgtc actgaaagaa 120
 gaggttatac aaggaaagaa acatggctct tgtgttgacg aattgatatt aaatgagaga 180
 atttacaata ccaagaaatc catggtcata aagttttaac attttaattc tacacattac 240
 agggcaaaaca gatactggac cctatttcca cattccataa atccaaactt tagttcccat 300
 ttcaaacggt gccctaacca ctaaaacccat cagtgggtctt acaacctctg gattatggaa 360
 atacagattt ctgaagtaaa agctacaaaa acaacaatgg aagaaagctg aacaaacttc 420
 ccatgaatga aaataaaaagt ggaacatcct gaagctctag acacttctct cccgtgtcta 480

tggtcaactt gtcggt

496

<210> 1132

<211> 663

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI230431

<400> 1132

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gcttgctact cagagttcta aagaaactgt tcatgttaag aagtagctct tctaaattag 180
aaatacgcag agaacaacaa ctagcagaaa ggtaggagac atacaggctg caggaagatg 240
cgacagttct gaaatcagac cacttgctcg tgaacatctg taagcatcac atcggtctct 300
tctctgaatt tatatacatc aaaaatatac tccaagctgg tcgcggatgg aaaataaagc 360
atacaattta aaagcaaaat ggtgagcatt tacaacaaaa tgtgaattac ctgtacacac 420
gttttaagag gcacaatctg ttctatacag taactgtcat actgaattca tattatacac 480
agtgctatct gataagtggg ttgagtgaac acacagtacc gaaacattga taaaaataa 540
attacatatt acttagtaat tttaaagtta cagacttcaa aaaaattttt tagccaaatg 600
ttcaactaaa aacaaatttt atgaaaaatt atgtcagatt ttacaaatgg cccctttcag 660
gct 663
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<210> 1133

<211> 546

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI230439

<220>

<221> unsure

<222> (1)..(546)

<223> n = a or c or g or t

<400> 1133

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ccaggtgggt caaagcaagg atgaccccag gctggcaaag tcctgatttt caggctcagg 180
ctgcaggtga cccttggtgt agctgggtta taggggcagc caaggactca ggctggggac 240
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agatgcgctg agagagcacg ggatccttgg acttcttggg caaggctttt gtaggctttt 480
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gaccta 546
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<210> 1134

<211> 651

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI230577

<400> 1134

<220>
<223> Genbank Accession No. AI230956

<400> 1140
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aattgaaaca aaatagtatt gtatagtctt ttaggaggca ataagccatc attattagt 180
tggtgaacc tccttatcga taaccaggct cagggtgggt atagccctga ccaaaaggag 240
gacggttacg agcttaaggg ttagcccccag tggaaagagg ggccatgggt cttgca 296

<210> 1141
<211> 596
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230981

<220>
<221> unsure
<222> (1)..(596)
<223> n = a or c or g or t

<400> 1141
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acgagtgggt gctcagcaaa tacttgaata aatgaaaacc ataattagca caattctgtt 180
cactgccagc aattcttcaa cccaataaa atatctatta aaaccagtt tgtacctgaa 240
tgcagattcc tgcttttttag ttcataccct ttcttcagtg tttacatttc cttgaaaaat 300
taaaattaaaa ccatacttta tgtgtactca gccacagaca taattgaatt actgacagcc 360
atgaacagat ttttaagtga cagagggtcag ataaagcaaa cttgctcagg atagcacata 420
atactgaata tgaacctaca aatgaaaata ggtaaggaaa agtaacagtt ttgtttttta 480
atatttgcta attttttaat gccttagttc ttgagaaagg ccaaaatctc atgttgacat 540
gaacacattt taaaaaatgg tctcttaagt gtaatannta ataaaactag gtattg 596

<210> 1142
<211> 454
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230988

<220>
<221> unsure
<222> (1)..(454)
<223> n = a or c or g or t

<400> 1142
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ggggtagcaa agcccgact aacttcataa aatacaaaat aaggagagg tgacgggagg 180
gagatttgta aaatacaata tcttaggggt tcggcaataa taaaaataa ggttcattat 240
ttacaaacga tttctgttct tggctctctg acagtangaa agtgggggtg tgtgtttgtg 300
tgtgcatgtc tgcttgtgtg tatgtatatg agggggccag gaacagtggt tgcgttggtc 360
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gtgggaggaa aaagtgggaa cagagtgggt ggcc 454

<210> 1143
 <211> 527
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI231007

<400> 1143
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 cccagcctgg gacttcggga aatcactgag cacacagccc atgtctgcca tattgggttct 360
 actactcagt ccctccaaga ctgtttcata actgagaggt cattagcaag tgcattgggtg 420
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 aagggttaggc catcacagcg agggctttca gacataagac aggagaa 527

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<220>
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 ctgtcagggg gagccttaac cactgataag ggtcagggac cgaggaaatc cagcgttttc 180
 ccaggagtgc agggactttt ccatagtcca agccgctttt gtcaggcttt gagcgttgag 240
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 atgcgtgtca aactgtcaa caggaag 327

<210> 1145
 <211> 618
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI231011

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 cagaacccac agacacacag ccatgttcac agcctgacat ccaagctccc acacacccga 180
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 actggaggtc ttaaggcgcg tatcttggga cagaacaatg gagagtggac agcagaatta 480
 agtacacatc tggcagaagc cacctgagac cattcaccgg tcctctctgg taatgctgca 540
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 agcaaacacc ccaaaagc 618

<210> 1146
 <211> 461

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231127

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caaaccacgt gtggtcacia gacataattg acagaaacag ttcaactcat agcttatagt 180
gatgccattt ctccagcggg acaagagctt tacaggatgg tgccagggct ttcttggacg 240
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tggcaccgtt gttgaattcc atgctttgga aaggctcctt ctggtagtca gcgccaagat 360
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aaaactgacc tctctcccct taacatccca acccatccaa g 461

<210> 1147
<211> 523
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231140

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tctccgtcag gccgtatcag agtattgact ttggccacat ctatatcata gagttttttt 180
cacggcctgt ttgatctggt gcttgttggc cttaacatcc acaatgaaca caagcgtgtt 240
gttgcctctt attttcttca tagctgactc ggtggtcagt ggggaatttga tgatagcata 300
gtggtcaagc ttgtttctcc tgggtgcaact ctttcgagga tattttggct gcctccggag 360
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aagaagaaga tccgaacgtc acccactttc cggcctctgt gcc 523

<210> 1148
<211> 528
<212> DNA
<213> Rattus norvegicus

<220>
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gggacagggt ccgatgggcc tccactcctt ggaagaggcg gatcaggtag tcataattcc 180
gggcccgcga ggccatgtgg tcaatgagca gcagcatgca caggggggtc tcattccggct 240
caaggctcag gatgagcttg cagtactcga gtgcagtacg tgggcagcca cgtttctcca 300
agaagctcat ctgctttagt agggccaggt agaagctcct gttctcaggt ctgcggtaat 360
ccagcctgca agtcccactg gtgaggctga acaaggggtg gaacacacac tccatgctgt 420
acagggtctt ctcgatcagg tctcgagcca tctctgatac ctctgaaag cggcaggcat 480
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<210> 1149
<211> 574
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231193

<400> 1149

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aggcgccaga acctctgggg tccctcttcc ttccttctcc ccagatcttg cagaaacacc 180
caagtgtctc tcagcagagg gtgaagcgctc tggcactgat gttcatgccc gtgagtccca 240
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gctggggccc cagcctgagc agctgccccg ccagctgccg gtccctgagcc cgcattctct 420
gcagctcccg tctgagccac tcaagcgctg aatccatgga gtcgaagcca cagatggccc 480
caggtcccac cggctcaggt ctgcttgagg ctctgcacca ggcccgggctc tggacttttg 540
cagtcactc cagatatgaa ggccgtcggg tctg 574
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<210> 1150

<211> 673

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231196

<400> 1150

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tctcggccat ctgctggcca ctgcgcttgg tagtaatcag taatcacatc gcatcccacc 180
acggaccgcc ctgtgtcacg ctaagactcc tccactcaa ggtacaagaa cccacgggaa 240
gtgaaaacgg caaactcatg agaaagaagg caaaggccta aggactgggc tctgagtgtc 300
tgctcacaga gacctcctat ttgttcctat cagtaaaacg gaataataga aatgaaagct 360
actttaatga aaagggaacg taggtatgct cattaaatat aactactgga attttaaata 420
taaatacctg tactccctga ttagtatcag gcagaagcta aactatttat ctagaatcct 480
ggctctcagag aaaaaaggct agagacagag aagggtgttc atgttatcag gtccatttgg 540
aaacagccca gggccttcaa gagaaccaca ctagtctttc tttttatcgg agacctctgt 600
tggtcctttt gtggagaatc catttgtatc tgcacccttg cagtctacct tgcccgtatt 660
cctattgtcc aat 673
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<210> 1151

<211> 584

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231226

<400> 1151

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tttcttttaga tccaagagtt tagccacttc tgcagcaacc tggttcttgt ctgccttctg 180
tgctttcagt tcccgaacta tgtttccctg tttgggtacc tcatccacca gcacttgtat 240
gtcctgcgac cctgctgtag taactgcctc aacaactgct ggcttggggg acccttttagc 300
ctggccccct ccaaagcgct gcctcaaatt ttcaatctgg tcattttcca atttctggaa 360
caaaggactg actgtgccaa ttcggtggcc tgctggtaag gtacaaatga agcttgtggc 420
aaggatgcgg caggctgcct ctgggagctg gagctgggtc tgaatgggtg agctgactgt 480
gggcatgtac ggctggagca tgacagacag caaggcagct atgttccact ccattcctgt 540
caccgtgcct gccgctgcc tgtccatctc atgccttta atcc 584
```

Figure 10 shows the results of the analysis of variance for the effect of the different factors on the response variables. The results show that the effect of the different factors on the response variables is significant. The effect of the different factors on the response variables is significant. The effect of the different factors on the response variables is significant.

| <400> 1152 | | | | | | |
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| caataatgaa | cttgggtaga | gtacaacaag | gagtatgagt | tattttcaaa | ggcaacatat | 120 |
| cctattttgt | acataattgc | atataaaagt | tgtccttcct | cagggtcagg | gagacaggac | 180 |
| tgttgcaacg | ggcctccttt | gaagtgtgt | tctctcttca | ttgatgatgt | tcagggccca | 240 |
| aagaattcaa | gggcagctcc | tccccgcttc | tcctcagact | tggatctcac | tcaggtttag | 300 |
| gcttctcttt | ttcttcttct | aaactttctg | gggcatccca | gatgtagctg | ttgagtgtt | 360 |
| ctccgagcaa | gtacagggaa | ttcattagga | gggttgtcga | cccaaagaag | atgatcctgg | 420 |
| ctctctgacc | aatgtgttcc | aggaaaagggt | acaccacat | gccggtgaca | tgatgtatcc | 480 |
| agcacagcca | caatatatag | ccacaggaga | aagtcacat | ggcggcgagc | ccactgcttc | 540 |
| tqctqqqgta | ctggttgggtg | gacqttctca | tctcgattag | tataaa | | 586 |

<220>
<223> Genbank Accession No. AI231310

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| tcccagtcctc | ctaaggcaca | gaatttagtc | agaaagccaa | catcatcgcc | tgctgcagct | 120 |
| gaatacacgg | caggggagtg | gcacttgga | cagtcctctg | acaccatagt | cactgaggaa | 180 |
| aagggtctacg | tctgagcatt | tagttatgag | gccagttctg | caggactttt | tgaacaaagt | 240 |
| aattttctcaa | accggctgaa | ttcaccagtg | gtgaggaggg | ggatttgata | taaagagttt | 300 |
| ctttatataa | gaactatgca | tgtggaaaa | tagacggagg | gcaaacccta | ggacgggcct | 360 |
| gagccctagt | tagctacca | tgcttggcac | tccataaagc | gcagtggcgg | aggaagaaca | 420 |
| gtacacaggc | atttgcacgc | cacctgcagc | ctaccggtc | cgccagctcc | tgagatgggt | 480 |
| gagatttact | actggacgcg | tttttttatt | ccattttaaa | atcaa | | 525 |

<220>
<223> Genbank Accession No. AI231388

| <400> 1154 | | | | | | |
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| gtgataaaaa | aggaacaat | caactctgta | ttcctcagct | tctaacacaa | atgggaaagg | 120 |
| ggaagaaggt | acaagagaag | cggggtggga | gtggggagct | cggggacatc | agggatcagg | 180 |
| ccctaaaaca | caaacaaaac | agcaagggga | gtgcaagggt | cacccaaaga | tacagaaaca | 240 |
| atctcaaccc | cgccacttag | ttctgattgt | ccttgttgcc | ccgccttgat | tttcagaagc | 300 |
| cggaaattct | aattttaatgt | gaagccctctc | gattcttaga | gggcaactcg | attttcttgg | 360 |
| aaacattaaa | tgaactaaaa | tgtagcagcg | agcccggcag | ctttctgcgc | tctgcggtag | 420 |
| acqqtqqt | acactgccac | tctcca | | | | 440 |

408

<211> 534
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI231439

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 ccaaggcccc ccgcggctct ctgtattgtc ccttggaagg gttcctgcga ggtccctcct 180
 gagaaaagga cattctgagt taggggcaag attgcctcag ggatagtcgc catgcggtcc 240
 cttggccagc cactccaag tgtccgtttg ctgctgcgga gcccgagct gctcagcact 300
 cggtgccggc caccgctttc tattggaacg ggtcttcagt cctgcagcta gctgagagtc 360
 cccgctgccg ccgtccggta cactcagtac actcggtaga ctgggtacac tctggagcag 420
 ctgcccacgg agacggtcgc ccgaggaact gcgtgaggcg catggcgctt tctcttcacc 480
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 <212> DNA
 <213> Rattus norvegicus

<220>
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 ggggtgcacag agggggcgga cagcagctcc agaccagctt ctccaaaag cctcgtggtc 180
 caagtccggt ggtacgcact ctgggcaggg aggggcagga ccatgcagt cataggcgag 240
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 cgtccagctc tggctcaatt ttcttggcca gctgcttccc cagctccact cccactgggt 420
 cgaagctgtt gatgtcccag atgatgccct gaacgaagat cttgtgtctc tacatggcaa 480
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<210> 1157
 <211> 446
 <212> DNA
 <213> Rattus norvegicus

<220>
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 gtaaggaaat atatatatat ttctctcttc taacattttt atgcaaatta aaaatcagag 180
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 cccaaggcag ggcaagagct cctgtgacct gggaggagga aagacaaggc agtacttcc 360
 ccaccctgac agtcccaca ctactgccag ggcctgggtc cgaggggtcc tgacagtcct 420
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<210> 1158
 <211> 542
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231547

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<210> 1159

<211> 689

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231763

<400> 1159

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<210> 1160

<211> 664

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231792

<400> 1160

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cttctagctg ttggctttca gtttgtggat cttcgttttc aggaccttc ttatccttgt 600
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ggaa 664

<210> 1161
<211> 410
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231797

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<210> 1162
<211> 651
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231798

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<210> 1163
<211> 652
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231800

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aatataaaca aaacataagc aaactggcac tgtgtggtgg tgaacacctt caagcccagc 180
acttgggcaa aagggacagg aggactgctg catggttagat gcaacctgga ttacacagca 240
agaccctctc cccacccaaa agcaaagcaa aactggacct aagactcaga aaggtaaagc 300
agtggattta ctgtcgtagg aggctgagca tctgcatggt ccttatgttc cagaaatcct 360
tggaaccgag gcgctagcac tttaaacagc tttgggatca agtccttctc agtgagccag 420
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<211> 712

<213> Rattus norvegicus

<223> Genbank Accession No. AI231801

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaacacatgc | cgggagaaat | gtttattgta | ctagaatgac | tcaaaacatt | tggctcttca | 60 |
| actccagtga | ggatttcaaa | catttaccta | ttaagaaacc | gtaaacactc | tcaagacaaa | 120 |
| atttgaatat | aaactttttt | ctagaaaata | tatgcacata | ggtatttctt | agaccatgtg | 180 |
| tagccactc | ttctcttggt | aatcttcata | aaagcgctc | agtgactccg | ggattctggg | 240 |
| tgtcacaatg | ctcaaggcct | gagtgaaatg | cctcttcata | atgcagtcag | ctttaatgtt | 300 |
| ttcttccaga | gctaggagag | gggcctcctt | gcagactgct | atgatctctg | ctctgagta | 360 |
| ggtgtcagtt | tggaggacca | gttcatccag | gtcaacctcg | ttactgattg | gcattgagtg | 420 |
| gaactgcaag | ttcagtattt | cccttcttgt | tgtgcatcc | ggtaagggca | cataaatgat | 480 |
| cctgtcaatt | cttcaggcc | tcatcagagc | cttgtctatt | ctatctgggc | gattagtagc | 540 |
| tgccaaaat | gtcacatttt | ttagctgttc | aattccatcc | atttcggtta | acagctgagc | 600 |
| caaaacacga | tctgcaacat | tccgcgcacc | tgaagaactg | ccctttcaa | cagccaaggc | 660 |
| atcaagttca | tcaaaaaaga | taatggaagg | tgccactgct | cttgctttac | gg | 712 |

<211> 591

<213> Rattus norvegicus

<223> Genbank Accession No. AI231805

| | | | | | | |
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| acagatagcc | atctaattat | ttattacagg | cagtaatcta | atttttacat | gtttatacat | 60 |
| ttcaaggaaa | atatccaacc | atcacaaaaca | taaaatttca | actgtaaaat | tgaattttac | 120 |
| accaataaac | acgaaaaaac | attttcgact | atgtgctacc | ttcgcttgct | tatgcaggat | 180 |
| ccaaagaatg | caggcaaacc | ctaaaaatgt | agcagaagca | tttcgcgaca | ctggcatcaa | 240 |
| aatcgagttt | gtgcagaagt | gtttccacta | gattcataga | gtgttctttg | gaagaaagga | 300 |
| gcagcgagta | atcatctggt | cgctctccgg | actctctgca | gctcctcaac | aggttcccat | 360 |
| tcctggttga | tggttaaaag | cttttggggt | tgagtaggat | ccaccgtttc | ccaaggttct | 420 |
| gggtttcttt | ttcgatcaat | aaccacgtcg | gtttttttca | aagcatacaa | agcaaaagat | 480 |
| gaggctccag | tggtctgcgc | gcttataaaa | aacgccaaaag | gaatgagttc | cttatttttc | 540 |
| atcaatctct | ggaaaatgcc | catgatgact | ttagtgtaga | attccacctc | g | 591 |

<211> 574

<213> Rattus norvegicus

<223> Genbank Accession No. AI231808

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 ggggtgggga ttttctcccc acaataaatg actactattt atttatgtgg cttactacgg 180

gtataattat atagttttgg actttaagaa caagaaatca aagtattcag aagagacggt 240
 ttcaggcatt tcttggtctt ttcttcagag gttactctgg tgggcacaaat ggctctcaga 300
 tcaccttttt cccagcttg gccattotta tctttaaagc tgtaaagaa ggatcctcag 360
 tcccatctcc agctcctgga acacccaggg gagagtgccg ggcagggtg cctaagcgct 420
 cttcttgctc tttcagagat atggaatttt tgtggggaga tttatggttt gtgttttcat 480
 gagggctaac ttccgatctc ttcctaggaa gtgggggttg tttagctggc tggtaaacct 540
 gactacaggg agctacggga tggtaggatg gctt 574

<210> 1167

<211> 578

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232006

<400> 1167

gcggagtctc agtctttaat ctcagcagtg ctcacacaca tgaaaccaca cactctcgga 60
 ctttcagatc ttgttgaagg ctgcaatgtc gacactctgc acatgctcct caaacttggg 120
 gatctcctct tccatcacac tgccgaacag gtcaatgtca ttgtcctcgt cgtcctctgc 180
 tgggtgtggct cctttcttgg ctgggggctc cacttgacgc ataggagaga catgttgggt 240
 ctgtggggct gtagctcggg gagtaggtga actcttctcc agagtgtcga gccggacctc 300
 caacttgaa atggcctgct gcaaatcttg caccacgcct cgaaagtctt ggttctctac 360
 ttccagactg gcaatccgca caatgagggtc actgtggtct ccaccagggtc cactggaggc 420
 tccagggcct gaactccag ccaaggattt ctggatgttc tctctggctc ttgcaatgtc 480
 tcggaggatc acgctggcgc cattctcctg ccgagagcca acgggtcacag gcccatcat 540
 ctgctcgtag aaatcccttt ctggatcggc atatttaa 578

<210> 1168

<211> 586

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232065

<220>

<221> unsure

<222> (1)..(586)

<223> n = a or c or g or t

<400> 1168

agaaaaagtc atttaattat gctccaaaaa tactcatttt ctaaaataat aataataatt 60
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 aataattggg tacggctgaa tagttaagaa acctgttgct tttatttaca ctcttgatcc 180
 agcaagaatg atgacatggc ctcggggtag tcatctacac tggctttgat tttatgacct 240
 attcagcatt tgggttcaga tgggtacaagt cttcatgta tgtatcgtca tcaaggcaac 300
 gttccccaat atttcctcca atctcatata ggaaaacttc tctttcttg agtgtctggg 360
 caacccact tcttggtc agaaacctgg caagtacgtc gctggctttt agttcttcag 420
 ttagctgtat tgccatggaa acttttgaaa gatggggagc ttgactcga atcactccct 480
 gaggaacgtc agcaccattt gcagctctgn cttgcttttc gtgtttttcc cgggtcatag 540
 ccattttctt cagcaatttc ttcattggctc tcttttctc cttctg 586

<210> 1169

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232087

<400> 1169

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gggtagcata aatttttctca aactttaatc ttcacaatta ttttactct atacacttta 60
ttgaaaagggt ctagatttat ttgacaaaat gattatgacc agaataaaga tatcttcttt 120
ttcatatatc agtaagtggc tggaaatagt aatttagtca tgtatcctgg aaaatgagtt 180
tcaaaatctt cctctttttt tttgagggtca gctactgtca ataattggaca ttaggcaata 240
gatcataaca cttcagtaac atgctgtgtc agaaccttgc ataattcaca cattcatttg 300
ctctctgcta cattatgact tcatggatta aagtttatta aattccaaat atttcttgca 360
ggaggggaatg agtaaaacat caggataatg ctgtcttcat ttttaaatat atattgttgt 420
tttaattgat acatagtaat tgcacataat tatggcacag tatgacgttt caataatgta 480
tagtgtacat aataatcaaa tgaaggtaat tggcatgtca caccagatgt aactatttcc 540
tttctttctg ggacatggct attggacata gtcaattaat tg 582
```

<210> 1170

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232103

<400> 1170

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ggacgcagag cccgaggcag gcacagtggc tttgattgac cacttgtggc cctgagcaca 120
caagtccttc cacaggacaa gtgcctttgc gcggtgtctg agagatttgc ggacttcaga 180
ctgaagagcg aggacaaggc tcttcttggg cttaggtggg gttgggttct gctctggatg 240
ggatctcagg ggtcaccaga gaagccactc tgagtgcaca gccccatgtc gtgtatggcc 300
ctcaggaaaa aaaatgagca ccaggctgaa tctggccaca ttcctgggtc ctgcccacgg 360
tgacaggaaa cagggtcaga tatgggggtc ctgtgaaact ggaaacctgc tctggcagga 420
agtgggggag ttgggagagt tgggtcccac tcctcaagca tgaggagagc cagttaccac 480
atggatgagc aggtgcccgc ctgtacaact ggccacagtc actggacggt gaaagggga 539
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<210> 1171

<211> 486

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232209

<400> 1171

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aaaatatcag taactttgaa aagctgaaag tccagctgta ccaagaacga aatacagtag 60
aaatatctga aacctgtatt cagctttgga caaatgtgtc ctacaggacc aggccttaact 120
cctttgtctg cagagcagga ccagcatgct gacctcagc acagggattt ggtttctgcg 180
tctttatttc tgtcttaatt gctatggttt aaactgacca gtaagctcct accctgcgat 240
cacctgtaaa tagcacactg agaagtcagt gacgacaaag tcagccaatc tgaaagcaga 300
gcaaaagtag ctgggaactt agatcctaag agcatagcac tgtacaactg gcaaatagtc 360
agtcacactt gggactcagt ggagacaaat aaaaagccaa tcacagcaaa gtatacatca 420
aactctcaag tgcagcgact tgccaagtcc cagaactttc tgtttgagca aacgggtactt 480
tactct 486
```

<210> 1172

<211> 564

<212> DNA

<213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232266

<400> 1172
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 ttttatctgt aaagcttggc ttaattctaca gttcagttac tttagaagta gttaaattca 120
 gttacaattt aaaaagataa cacaaccta aagcaatcta tgaaacaaat tatttacaat 180
 taaacactta gggtcctgat tcacaaaaat tagtgcatth catgattgat ttgtaagttt 240
 tatacagaaa gcaagcagga tgcagactat tccctggga aaatctggaa tgaaatgaat 300
 ggctgttaga agacagtctg ccaatctgct acagcaaact tgagagaggg cggaaacctg 360
 gtggctgcac tgacgactgt tctcagcaga ggtcagacag gtggtaatgg agagcagaca 420
 tttgacagag ctcttggtgt acatagaagg aaaaggtttt ccttttcaga tgaaactaaa 480
 tattctctga gtctgtatat tcagacgaat ctaggatttg tagtttcttt tctaatagct 540
 ggcagagtgc aattccgtgg cagg 564

<210> 1173
 <211> 588
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232269

<400> 1173
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 aactggcaac caacgcaatc cagttgtaca acgatctgag gcttacagta catttaaggc 120
 ttttaaatth gaaaaagaa aactaaaata agaccaaaca accccaaacc caatcccga 180
 accatacaa gtatgttagt gatttaaaac tctcgtttct gatgttcacc tggcacaact 240
 ccagtgtcaa aacccaaaga actcctaaac taagagatca gcttagggta atttaattac 300
 ctaaattctt caaagcagaa acttggaatt tttgtcttg gaaatggtat aaaaatttta 360
 atagcaaaac ataggaataa aaacatatta acaaaatgta ttcaatcatt tacaatacaa 420
 acaaggaatc tgcagtctgt tgtttagacc tgacaaaaga aatgtatcca ttaagaattt 480
 gtgcacaatg taattgcaa tatgtacagg gctttaagaa agccgacaag gaggacttta 540
 cagagggaca gttggccagg ctctattaga ccagacaatc aaaatatt 588

<210> 1174
 <211> 618
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232273

<400> 1174
 aagaagaata aaaacaaatt ttatgccata cctggggtac agaaaacatt gaagacatgt 60
 cctccccatc cccaccacag acccaaacac acacaattta ccagatttag tatagcacgt 120
 gcaggcaact cattcacaag ataaagcaaa tgtcccagcc gttggcgatc tcctagcctg 180
 tcatgactag aggacttggt cccacagtca catgaacccc tacacaaaac cacagtgcga 240
 agtcaaggaa gcaactgccag gacactgtac agcagatggc cacttcccga cggcctctcc 300
 tccaggtgag tcggaagccc acagcctggg cctctgacgg atgtcactgg agaaccagct 360
 ggcagccacg tggtagaaac agctttcatt ggcacatctg tactttcaat ggaaaagaaa 420
 tgaagtcttt aatgttagga ggctgtgctg tctgcgtgg acatgtctgg ctgtgggtccc 480
 gctggccctt ggcactcgtg ctcatccaca cacagcgag cccgctgtct gtctcacagg 540
 atcacttgag ggtcttgctg aggttagaga agccaatacc aacacaggtc attagcactt 600
 tgtccccgcc cttgagtt 618

<210> 1175
 <211> 641

<212> DNA
<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI232294

<400> 1175

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aggattaaat gattttattc agtttcacct caaaaatcat gtttaattaa aaataacact 60
attattaaaa ataatacaag acatgtgcat tacaaagtaa agaatcggaa aacggtgagg 120
gttttagttct aaagagggtcc tagaccacaca tcttatcacc attagcaagg ttaggaagtt 180
gattttctggc taatgatcat cacagggttct ataatacaga acagagagga gttttctaac 240
catcatcacc acacactaac catcaacact caataatagt gtaatatctt tggaaaagcg 300
caaaaagatt tcttttagtgg aatcactttg gaaagagtaa caaacagggtc tctggattcc 360
caaccttccc tccaccatcc tgcaaaatcc atgctggggtt ctggcgtgag gtctggggtt 420
taataggagg cacaagggtat gcctaactaa ggtcaagctg tgcccaccac catttgcctt 480
gaggactatg caacatctct ttctggggagc cacgttcctc ctcaagctgg caccaggctt 540
tagccttttc cttctcctgg catgaaatcc ctgaggtaat tccagtgtct tgtggtcatt 600
gtctcagcag tctatggagc caaagaaagg gcacaaaggc g 641
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<210> 1176

<211> 614

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI232303

<400> 1176

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cttctagccc cctcaaaagg ataaggctgg gttcatgaac ctggggtaga aatgtcccct 120
atccctcatc ctcagcttat tagactggaa aagtttgtgc aaagagatca ccagagggtgc 180
caaatatggg ggttgggtca ggccagggca gcagatgaag gaaaagggtga ggggtctgtg 240
gagggccccc gaaagaccag gggagcagga gctagggagc caaaggagggt ggggaagagta 300
gggctagagc ctaggagtgg ggtccattct gaagcagggt ggtctcttgg ctcccgatgg 360
acaggctgtt tacagatagg gcaggctctt cgggtctgag tgagccagggt gtccacacag 420
cgactgtggt aagcatgagc acagggaagt atccgaagct tgtcccgcgt ctcatactca 480
tccagacaga tggcacagac atcatactca tctccttttt gataatcatg agtaggaatc 540
tgtttcagtt gctcttttgg aagtctgttc cggtgaagcc gcttccgggtg ctggatgcaa 600
cgaactatca atac 614
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<210> 1177

<211> 601

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI232328

<400> 1177

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cacagtcatt gtgagtttct tgaatatgat gagtaaactc cattctaate gcagtcacct 120
atagcgccag aggtgtgagg ctctcgagga agccatgcga gcctgttctc aattactgta 180
gagggctccg gtctcactta ggctctgttg ggctcctgga agtgggggtg aagtgggcct 240
ggagagggtc ccagcatttg tagtagtcct catccaaaca accacagggtc ttgagtcctc 300
acttggtgac tgccaaactc aaggaagatt caaacataaa tgccatgggtg ccgtctgcta 360
tctctcagg ttccagtttg gccttgctgg ccttctcaaa gcagtctgag tcggggccat 420
gaggggtcat ggcactgtgc aaactgccat gatggtcttt ccaaagaaag ggtggtgata 480
tcatttacat ttttaaatta aaaaaacata acagaatata gggccagtag cacagcccac 540
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cctgtaaagg catctgccac cgaggctggg actctgcttc tgatgcctgc gatccacttg 600
g 601

<210> 1178
<211> 601
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI232340

<400> 1178
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cgaaacagtt ggcattttat tgctagtgcata tatagtgtca cagttgatac aatttcatta 120
caagtggaaa aatacactgg ctgacattgg caagctacaa tacatctata tgtcatatat 180
atctctttac aaatcgccag tagttcaaga ccgtagaggt tatctactga cactactatg 240
gcttctcttc aaatatagga attgactaca aatatattct gaaatacatt tgtcttccaa 300
agaaacataa aaagtgcaca aaaatatatg taaaaaatgc cttgcaaata gttatcaaaa 360
ccaccagggc cgtctgtgat cattaggacg tatccaattt tatcttggtc ccatttctga 420
ttggaacca gaatccccac tgtggcttca cggcaagatt ctggcttatt ctttttttct 480
atctctgata ttcgaaaact cagagcccac ggagccactg ttgaaatata taggactcag 540
gggcaattgc aaaagtccaa ttccttaaag ttttcaaatt taaaattgcg tttcggataa 600
t 601

<210> 1179
<211> 572
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI232341

<400> 1179
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acaggctgag ggcattggga gaactgtgaa ctggcccaga agcttcttgc tgacatgaca 120
gaaaagaggg gtgtaaagga acccccattc tctaattctag ttgggggaac aaacatggag 180
tagatctgtg ggaggtgggt ggagcaacag aggagggctt cctaaagcac aatggggcct 240
gggaatcagt cctctgtctt cctaccagac cctgcccctg aaggcctctt ataaactctc 300
agactgtgag ctatgccatc actgaggatg aaaaaccagg aggtggacat ccatgacatt 360
ggttcccgtc aaccctgtat gcagcaaatg tgttccaccc tggaagctgc aaaagaacgt 420
gtacgagtca ttgttgctga ggaaggtggc aaaatccagg ttttcagcag aagcctggct 480
aacaaggtca gacatgaccc agggcccggc cacctttgta ggcccgtcct gcccatcagt 540
gcctccactc aagaacagca catcaacagg cc 572

<210> 1180
<211> 506
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI232408

<400> 1180
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acacgacacc tttttttccc ttggttctgt aacaacagtc ttgcatctaa agactaaatg 120
ggtccaacta ctaagctagt aagatacag acattgatta agtttagaaa ttataatgct 180
tttctttttt tggcattatt taaaaaaatc tttaaaatac atactcaaga gagaaaagtg 240
actacttaca ccagcaccag tctaaaaagt ccattttttt ttttttttgt aacaatggca 300

<211> 547
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232494

<400> 1184
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 gtgtctgtga tgccagggtc agcatgacca tccaaaaggc acctgtctag gggaggcagc 120
 tttctgaggg gatccagagg agcagtggcc aatggcaa atctctgtga gcacactgtc 180
 tgccctgtgc tggggaagag ccccccactat gtgtcgccct tggaccttgg ttgtgagccc 240
 ctaagaatat ttctcagggg attttgcctg acaggatcac actctgtggc tcaagcaggc 300
 ttgtaattct ctacatagac aagcctgcct ctgaactctc aatcctgtc tccagtcttc 360
 tgcgtactga gaatacaggt atacgtcact atgccccact cctagagAAC agttctaagg 420
 tcaagacatg atcaagatgc ccgtgacacc atggcagagt catgccaagt ttctgtggtt 480
 tgaaaccttg gatgtgagtc tcattattca aacacacagc tgcaatgcaa aaggcaccag 540
 aaggcca 547

<210> 1185
 <211> 535
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232534

<400> 1185
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 acaagactga gcccatcctt gaggggttgc ttccacctcc aggatgctct gggcttcttg 180
 ggctgactca agacttcata ggcagcctgg atctctagga agtgccctct ggcctcctcc 240
 gtctgggtgcc ggttgtgtgtc tgggtgccag accttcacca ggtctcggtc actccgatgt 300
 atttcttcat tgggtggctcc ttctggaatg ccagAACct ggtgagccag ctgacgtttc 360
 tcctcctgaa aactgtcaac aaattcatag agcttttccc attcctggaa ctggctgcta 420
 ttgaagccag gagccccaac cagtagccac cagatccggc aaggcagaag caagacagac 480
 tccacgagac gaccgagaag tgggaaaaag ttgaaccaac tcaagaaaga accaa 535

<210> 1186
 <211> 510
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232552

<400> 1186
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 agtagtctca ttgaccacat tccagtcct gctgttgccg tcgtcgtcgt ggttgttggt 120
 gagacagggt ttctctctgt gtagcactgg atgtcccaa actcactctg cagctcaacg 180
 tccagtagga atacattccc taggtcaagg acacagggac agcaactcct acaggattcc 240
 agaacaccag tgtaaagaga aaatcctctg agacactgac cctcacctga gcagggtagg 300
 cggcctgagc cagccctcca ccttcagct gggacagggc cttgcggatc gtgttcagct 360
 cctggattgt ggctcctcgg gccgccagca gcttggtgag cgtctgtttc tcctctagt 420
 tgacagggtg gataggagcg ggcagcaggg ctgagcccc acctgagatg agcacaagca 480
 gcaggctcgtc ggcagtgagc ctctttgcca 510

<210> 1187

<211> 370
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232611

<400> 1187
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 aaccattgat taataacccat taatgccccg aacatgaatt tcatgtcatc cagcagaaaa 120
 ctgatttcac atagtcaactg gacattaaaa tttgaccttg aatctgccat gtctgttaca 180
 ggcaaacgca ctacaatctg caggaggctc tgttgtgagt actgtccagg tgtttgcca 240
 agaaggatag aatttgcttc catgcatcta tctgggcttt tgagtgagcc ctgacctccc 300
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<210> 1188
 <211> 448
 <212> DNA
 <213> Rattus norvegicus

<220>
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 tggttttatg aggtgctca gtgacttgga ggctagcctg ggctatagga gaccagtct 180
 cacaacaaa aagatccacg gatgagaagt tgctcataa ttcacatcca tcaatcccat 240
 ggggacagcg aggccttcga ccaccataa aagaaagggtg gtgtctacaa tactgtggct 300
 tcaactggcag ggactacact tggccttgga aggagtccag gtcacatgtc acattccacc 360
 cttcctgaga gccctccct cctggcctgg aagttcaaag tcagctggag acaaaggctg 420
 gctggcgtcc caaacacact tgcaaat 448

<210> 1189
 <211> 605
 <212> DNA
 <213> Rattus norvegicus

<220>
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<220>
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 ggattttaaa tgtgaatggg tgccaacccat ggggactgga ggaggggtgg accagcaaag 180
 aggggcgtac atcattctta cagcgactct tagacttgga atcaatatgt gctcatcata 240
 tacatatatta gcccaaatca gtatgctcag gagtagaatt tcttctgtct ctataataaa 300
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 gaatgattgc taaacatcct caatgtgggt ttcattatga aaaaacatgt ttcacataaa 420
 atcttcataa tataatccag aggccaaatt tgtgcatgtt taaaatttga gtccaggcta 480
 gatatttgga ttttccccc cttccagtgt ttttcatttt tataaatata tacctagnct 540
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cagtg

605

<210> 1190

<211> 646

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI232700

<400> 1190

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agcctcctcc ttccttaaac aaaagaaagc caagaaatgg tgtctgctct agctcagtgt 240
gaaggcctcc ttagaggtag gggagcaact gactttatta ttttctaaca gtcattgagt 300
atgatgctac tttaaccctt agacagtgcc ttcaaaacaa cctctctcct ggggtccttt 360
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gaggcgcccg atgggacaca agcagaggct attcaaccag aacgttttaa attccgcgat 600
tcttttcctt ttctaggaaa acagaacaaa cgaaagcgaa cacctt 646
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<210> 1191

<211> 594

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI232706

<400> 1191

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tgactgaaac ttagcatcta tcttactgca gggaagacaa agcctcatca cagacaaaac 180
agctaactca gcaggcatgt gcacgcgtca ctttcctgtc cgtgacaagt tttggaaaat 240
tacactttca aagaaccagc cttacaagta gatattcttt ccaaaaaata aaaccagta 300
tccaagtcct gaaaactcac aaaactagat gaaaacatgt ggtggtgtca gctgcgggcg 360
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actggggagg tgaactcact cccagcactc cctcctgagc tggaaattgt cttattgctg 480
agttatacac aagtcatttt ctttggcaac atcactagct aacaccaagg gacaagtgt 540
aaggtttggg ctgtcagctc tccaagcact gtggctgccc ttctgtgggt ccca 594
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<210> 1192

<211> 595

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI232784

<400> 1192

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ggagagatgc tcacccggcc agtttgcttt tctctgtggc tagggagggc ctgtcttcca 180
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cataggctga ctcatctgag gccaagtata cgcagagcag ggcgacctct tctgcagatg 300
caaaccttcc ggtcttctgt ctgttttaga aagctttcag tgctctttg ggatcatctc 360
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tggtctgtat tctttcttgc agagatgggg tgtcaaccgt tcctggggcac acacagttgc 420
 atctgatgcc ctgctggatg aagtctgcag ccacggactt ggtgaggccg atcacagctg 480
 ccttggttgc actgtacaca catctgttct ccaccccttt gatgctggag gccacggaag 540
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<210> 1193
 <211> 476
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232924

<400> 1193
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 tccaacaatc tagtttttaa aaaaaatatg gaaataccct ctaatagcat atatgtcata 180
 cataacattt cagatcaaat gaccagtaga atttaactca catttaatta aaacaaagat 240
 gccatgagta acacgagctt tggctaagca ttaaaattct cttttacact taggaggagt 300
 atacacacaa ataatgatc tgagaaatag aaaaagaaat ctgattagaa tttggagact 360
 aatgcaagga gaagaggata ttaatacaaa ccctgctcg agtgcttgtc tggcatggac 420
 aagaccttgg gtttgttgcc caacaccaac accatcacac aaaaggaaaa agtctg 476

<210> 1194
 <211> 521
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232970

<400> 1194
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 tgggaaacag ctctgaattg agtcatgctg gggagggttc cgaccagtt gggatcgatg 180
 acagggctcc cccacttcac ctttcccaat ggctctgacc ttcattgata agactgaatt 240
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 ggccagagac accgtgtgcc agttgctgcc acacgcgaaa tggagacccc tggtagaggg 360
 agaaacctct cagctcccgag agactattta tagctagggc tccaggctgc tgatctgtga 420
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<210> 1195
 <211> 388
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233081

<400> 1195
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 gccacagagc agaagttaga ctgtcagccc agcatggtaa gtaattttta tatctttcca 180
 aaggcagctt atgaacaatt ccacacagct agttaccagt taatgggtgca tagaaatata 240
 tctgtggttg tcatggacaa ccagatctag atatagtaag gatgagagtg gcattttttt 300
 ttccctatca aggtattttta agccttttag ggggaatttct atagtgtaga atttaacttt 360
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<210> 1196
 <211> 549
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233147

<220>
 <221> unsure
 <222> (1)..(549)
 <223> n = a or c or g or t

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 aagtccctgg acaacctcat tcaggggggt ctccctgtag atttgggtcca gcaaagtagg 180
 ccagccatgt tttagcccct tgactcactt ttggagattt ggctggggta ggaaagcctt 240
 taggaatgag gtgattaggt tagggaaatg cattattgtt tgggggggaa ggagacagcg 300
 ccctggggcan aaccctaccc caaagaaaag ggtgtctaaa atgttcacgg ttccttcttt 360
 ttgctcctaaa aagtgcacatt tattcaaaga gagagagaga gaaaaaaaaa acaaaacaaa 420
 aaaacaaaaa caagatgtcc atcccttggc tcccttccct ccccccctcca gctgttctctg 480
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 gaggtcaac 549

<210> 1197
 <211> 553
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233162

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 ggactgattt ttttccccct tttggaaata actgaagaga accagttgtt actgctttca 180
 gctgccacca gtctggagct gcacctggag aggtgtttta tatctacagc agtcaaagtc 240
 aaggaagaag tgaactccat cttttcgcag ccccgaaacat gttataaacc ccaatgggag 300
 caaatcccac ctaatgtttg gcagactcgt tttagaattt actcaaactg cagcacaac 360
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 tgagaagagg cagagctgga ccccgacagc tgctgcttta ggacctgctg ctctgcacga 480
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 acttcacttt ttt 553

<210> 1198
 <211> 566
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233164

<400> 1198
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 tgtaactttc tcttcatatc ttttctttat cttagccaga ttggtggggc attttccagc 180

ccctaggaga cgcacccttg gagcctgggg gcagacctgg cactccctac cttcaggcgt 240
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 ctccagtagg attccgtctt tcatcggtgg taaagaagac ctgtaacagt tactaacaag 360
 catatcaaatt gggatggtga gaaaacaaga gaattcttgag aatagagtct accgaagagg 420
 gcaaacagca ttttagtcaca cagctaaacc aggaggcctt tcttggaaca aaaaggccat 480
 tgtcagtgtc agctccatgg ctttgccctt caagagaacc agcctccaaa tgacactagg 540
 ctttctagta acaactaata acaaaa 566

<210> 1199

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233172

<400> 1199

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 gcattccagt gttccgcgcc gcacacagcg ggcacccaag aaaaagctct tctaattggcc 180
 tggctcatga cactggccg gggcaaacgg ttcgggttcag ttcttttttg ggggcagcag 240
 gccggccctc aggacagtg tgggggccgc ctgcctctcc cgcgggcccg cgggcaggag 300
 cagcaccagc ttctggggcc tccgggccag cgggtgaacc caggccagcc cgagccgcct 360
 gccaggcaga accctccagg tgggggtggat atgcctggtc ctctggggca gcagcagcag 420
 tagcagcgac accctcagaa ccgtgggctc cagagccggc cacagagcac ccttggaagc 480
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<210> 1200

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233182

<400> 1200

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 atccaagttt cttccaacag aaaagccac agctcaaaaag ttacgggggg aaacatgact 180
 aagccaaagg acttcacatg tttaccacag aagtgtatca cattaaaata ccacataata 240
 ctttctaaga gaatcaagcc acttgtgaaa ccattagcaa gcatggagac tgaaacaact 300
 gcttaggcac aggactaact caggcaccat aaaaccctct gtcttctcac ttaacaaata 360
 agattcccta gagacaatta tttgggtgcc tgcttgtaaa aataaggtag ttaatgacgg 420
 aacggtttct tgatcatgat catacttggg taatctcaag gaatgaagat gaggattatt 480
 agacatgatt acattaacat gaaattcttt atctatacac tctgatttcc atgtcctga 539

<210> 1201

<211> 537

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233190

<400> 1201

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<223> n = a or c or g or t

<400> 1204

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gatacacgaa acacagttct aagaggtttc ccactaagta catttttttt ttacacagca 180
tacatttgac aacgatgccc tttttaatat aaaattccgg ttacatatac caatatggct 240
agtttagcatt tacactgtgg cttgaatagc attgtgtgac tccaacattt ctctttgccc 300
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aatgaggggc ccaggcttcc tgccctccct ccctctctgc ccacagcatt gattgcattc 420
cgtttcttcc actttccttg ttctttccaa aaccacctga caggggttgt cctgacttct 480
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tatctacca aatcaaaaca gaatatggcc ttactctt 578

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<210> 1205

<211> 474

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233300

<400> 1205

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cttattgggtg ctgatgtcca atagccttgg gggacctgcc ttcggctctc cacaaggcta 180
ttttgtttca caaagtaact cttcaactta cgctttacta taaagaaaat gtatccgatt 240
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aactcgtcca aattagctac aaacgcttgg caggatggac acgttgtgtc tgtgggcca 420
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<210> 1206

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233323

<400> 1206

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tgtgaaggat tgacttcagt tgattttgaa gctttttgtt tatttgggga ggttgtttgc 180
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ctgaccattt tagttcattt taaagaaata tctacttgag cttttgtctc atttgtaaag 360
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tgggc 425

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<210> 1207

<211> 469

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233361

<400> 1207
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 tttaatcttg agttacagtg acctttttaa aacagaaaagg cttttgattc acctacaata 180
 tgagaacaag tttgtaactt aaacagccat aaaacaaatc acgcctgctc atgaaagcaa 240
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<210> 1208
 <211> 124
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233367

<400> 1208
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 tcaa 124

<210> 1209
 <211> 424
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233407

<400> 1209
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 tacgaaataa atacacagta actaaaagag atagttatcc atggattcat ttggcacc 180
 ctctgctcat cttctgctgc agtttccgat gccttttgta aatccttctc tttctcgctt 240
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 gtgtaacaaa cacatctgca gtgggatcgt gtggaagaat agtctttggg tctttcttcc 360
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 ttac 424

<210> 1210
 <211> 551
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233457

<400> 1210
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 cactgcagtc aggaggcagg gaggagacag cacagccccc accagtttct gcataggagg 180
 catgctggga gaacagaact cgaatgggaa gttacagaag aataaacagg agaacaggaa 240
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 gttcctgagg gactgaatgc acagagccga gaacgtccc gagatgggg accacgaagg 360
 gtgtattctc atgcacaacc gcagctcgga atttcagccc acacacattc caccttgaaa 420
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aaaggcataa tctttcacga tgtcacattc gatgactggg ccgtactcct caaacttggc 540
ccgaaactct t 551

<210> 1211
<211> 475
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI233468

<400> 1211
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tgagatcacc ccaattaatg gggaaaagct actgtacagc aggtctccag taccttgcaa 180
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aatctatttt agggcatttt tgtgatttta tgtttgaact gaaaaagtct aatgactgat 360
cacaaatgtg aacgtaaatc acaaatgtga acgtaaatcc agagtgtctaa gagaagtaaa 420
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<210> 1212
<211> 401
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI233480

<220>
<221> unsure
<222> (1)..(401)
<223> n = a or c or g or t

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gagacacagt ttgggaaatc caaccacacc tgtttaactg ggaatggggg aactttgctt 180
gaagtccacc agatccagga ggaaaaagct gttcctttcc tctccagtgt gaaccttggg 240
ttcatgtttg atattacgtg aagcataagc atgtatgagg tacaggctcat aaaacgctgg 300
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<210> 1213
<211> 411
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI233494

<400> 1213
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ccatccactt cagcctcgct gccctagcat tcccctatgc tggggaatca agctttccca 180
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tgaggccatg gatccctcca tgtgtgctct ttggttggtg gtttagtccc tgggagctct 300
gggagtcctg ttggttgatg ttgttgttct tcctatgggg ttgcaaacc tttcagctcc 360

ttcagtcctt cccctaactc ctccattggg gtcccatgc tcgatccaat g 411

<210> 1214

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233570

<400> 1214

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tcagggcctg tgctctcctg cgggccactg ggcagctatg ctgaaaacc agagcagtga 180
caactgggag gaaacactca ccagaaggc ccataggccc ccaaactccc aaattcttat 240
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ccagcccgtg ctaagactgc tggaccagcc atgcccacca ccttggccga ggctcagaca 360
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agccaacctt gttttttggc a 501

```

<210> 1215

<211> 345

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233583

<400> 1215

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caaacgcata aaaataaaaa gaaaggctga cacagagcaa tcaggcgac tcggcttgtt 120
gactttcaac aactctcatg tacgaatcgc cggcgccgtg gggcggtgga tgagggggtt 180
ggggtgcatt acaccagcta cggctgtaca caggagcatc cgtcacatgt tcaccttcag 240
cactttccca gtctgccgat ctttctccac acagtatcag ctgtcataga actctgtgaa 300
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<210> 1216

<211> 442

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233639

<400> 1216

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gcattccaca aacatggcca catagtagta catgaacata gtcttgattt agacaggtaa 180
gaaggatcag attaagtgcc acaaatagtt aactaaattc caaggaaata ttgcttttgt 240
aatgtgaaca atttgattgt atcataatac atattatttt aaaaaacaaa ataaaatttc 300
tcaatcacgt ttcttcttgt ttctgggcaa ccaacatcct acagagcaac aagaaacggt 360
gggaggaggg agacaaaaat gtaagctcgg acgttaaattg taaggctact ctgaccttag 420
ttctccgtct ccttagtggt ct 442

```

<210> 1217

<211> 603

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233714

<400> 1217

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aatttacatc agtaccaaaa tgggcaagaa aatgaaggca caggctcact ctgtatcaat 180
aaaggaagtc aaacacagtt gtgaggcact aatgacataa gcatagaagg tcaatcaaaa 240
ataagcaagt agtcagagtc ttcagggact ttcttccctc ttacatttgg caaaattcag 300
tcttgatatt tttaatacct cagagagaaa aaaataaata aataggagat ggtgcattaa 360
aaggtcaagt tacctgtaat tagtctttag aaataaaaga gatgaaactg aaacacagac 420
ttctacagtc ttagattacc cttcctttgt aaggatcttg tgtgtctgtg tagaaaatgcc 480
agctataact gaagatctaa gatatttgct gacatgggtc ctcagtcctt ctaaaagatt 540
gtttcacaaa aacaactatc ttggtttcca ctgtaagtca aatttgatta tgtaaaagtg 600
atc 603
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<210> 1218

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233717

<400> 1218

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tggagtttgg tttctgacac ccaaactcagg tggccgacaa cctcttgtaa ctctagctcc 180
aaggacccca cccccacccc catttggtgtg tgccatgggt atctgtatat gtggcccata 240
cacaaatacc taagtaaaac taaaatttaa aaagattatt tctctgtggg tgcatgtgca 300
tttgcacaca tgcacatgca aatatgtgtg gctgccaggg gaaaccagaa gttcacaagt 360
gctctcaact gctaaacat ctctctgtcc ccacttagga gactttacac gtctggtatt 420
tctgggatag ttccagaact aaaacattct cttcagattt taagcacagg gttgggagtg 480
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aacagaccct cgtgcc 556
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<210> 1219

<211> 687

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233729

<400> 1219

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taccgaagat tttgaggcaa aatcagataa ggaaaaagaa aatatgggta agagaatcca 180
gaatcatTTT ggcttcattt tagtttttaa caagggtcaag agtgtaccca tggaaacttt 240
gagaaaacca gtctttgacc ttgcagcaaa gactccagta gccagaggac tcagaaaagc 300
tcgagtgtc ttaggtctct gctgctttcg ctatgttcca agcaccaggt ccacacagca 360
tttaagtagg aacgacactg ctgatggtaa gactgtgtcc gaaactccat gacagctctg 420
ggaaggcaga cgtcctgcgg agtgagcat ggatggaatc atgtaccttg agaaattctg 480
gtctgtctta gacggaatca gtcagctcct tctacggctg ttgtggcaac aggtttcacg 540
tagtatggcc cttcacttag gtacgtttcg agcctcaaat aatttgagtt cccaaagatc 600
tctgcaactg tcttggaatt ggcgagcgt tttaccagtt cgtatttcgc atcctttgaa 660
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gttttgtcat gttccacaga ccggtcc

687

<210> 1220

<211> 609

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233731

<400> 1220

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aactgaactg tatggaaaat gaaatagcaa ataaattaga cccatgttta acacagaagg 120
tcagctaaat gttcaaactt aaggctgtca tggacacagc aattccatag tcttctttta 180
agggtgaagt ctttcaaata cagctttgct atgaactggc ccagagttca acagcaaagt 240
ggaatgctta acaggggtgg tgatcaggga cacgtttcct tggcgccgct ttgatgatgt 300
tgtccactcg tagaatcacc tctgctgctt ccgccgcaact caaaagaacc tgccgcttca 360
cttgaaagct ctcggttata cccagtactg ccatatcacc aatgctgcct tccttcatat 420
ccagtccagc agttatacgg ccttcaactgt gagcagctcg gagctgtgcc accagatctg 480
cactgtcata gcctgcattg tcagctatga tggttggcaa cattctcagg gccttagcaa 540
atgactccat tgctacggct tcttttcctg gggttctact ggcaagcatt gtcacagcat 600
gagccatca 609

<210> 1221

<211> 587

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233766

<400> 1221

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tccagccagt tccccatca cgatagtcata ataacaaacc aaggcaatgt cggctcttgag 120
ccagactcac aaagtcccc ggccctggcc ctggcctcag tacagtgtct ctgcattgct 180
gttccggggc cgtttgatct tctcaatgtt tttcaggatc atgtcatgga gcgtgacata 240
ctgattcctc agctctgaga tgatgaggcg gaggctgatg tactctttct catcgatctc 300
tgtgacagtg cggcgatagt cctccacatg ggggtattta gctatttttag aaaccaattt 360
ggctcttgta atataatata tagaaatctg gtccagataa gacgcagctt cactctcgac 420
agttcttagc tctgcaactg tttctcctg aatcgacacc ccgaagttgt tcccccttc 480
tatcctggga atcaagagct gaaccacat tttgaccgtg ttacatttct cgatcagcag 540
ccgaatctca ggttttactt tctcaataat gtccacaagc tgggtggt 587

<210> 1222

<211> 389

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233806

<400> 1222

aatgctctga aaacacttta ttacacaaat tacattcaga ttctgaaaaa tagtgttcta 60
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aaaaagaatt taaatagaga ctttttaaaa tttctctcat tgcaatataa tgtagtgat 180
tttaaaaaaa tagaaggaga tttagcagct tttcgtcgtg tggcagggtg gttctcttca 240
ctgccacagg ctgagaatgc tgaacaggaa aggcacccaa gaaagacact ggcgatgggt 300
gtggactggg agaatactgt gttcaagcag agaatagggc tatttacatc caccaactaa 360

aacgtctcca aatgtgaatg agctaaact

389

<210> 1223

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233818

<400> 1223

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atcaaaatac catctgtaaa gaacaggact cacttcgata tgcataatgaa ttcgggtccag 180
catagaagag tacaatcaaa aaaacgtaca acagattcct tctgcattag gaaacatctc 240
atggccttag gcacactcat ttgtccatat cattaagaga cagggccttaa tctgacacag 300
aggagacttc tttccaacct ggactggatt agcaaaaagg ggggaaaaaa tcatggtaat 360
attgggacat cctggatgtt tcaaaatggg gtttttattt ctgagctcgc tgtgcatagg 420
aaaacaacca ctttcagagg actagaagcc cacagatcta agcatcagta aactttaaaa 480
aagacttgct ttttcttgcc aggaatgtta ttgtttgct gcagggtaca gttgaagctt 540
ggagcttttc aaagcgtcgc ttt                                     563
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<210> 1224

<211> 516

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233828

<400> 1224

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taggggtccaa ccgggaagga gcagggtagg agatgggacc agtatctgtc atccacttga 180
gcctggaaac cctggatagg ggctgggttg ctgccagtgt ggtctcctgc aggttagttga 240
tagtgaaggt cttgaacagg ttctgcaagt tcaaggtcac cggagagctc aggttgcat 300
ttgaatcttc cttcacagcg aactgggtgct ccaagcgcag cagcagcatc tttggacccc 360
agcgagccag ggtgagcaga tgcacctgcg gaggtagctc ccggcgaagt gcgggagaact 420
gcatttttgg tgcttgagag tgatagggac tgctaccccc gtgggcccagc accacctgag 480
gggccaggac ttctgtctcc gccagcagtc ggtgtc                                     516
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<210> 1225

<211> 561

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233835

<400> 1225

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agcttattca aggtcaccgc gctggctgaa gaccgaggat agagctgagg aagaatgctt 180
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gaattggcat ggagatgggc gtctggggag ccctgaagct ctcaccagga cctttcacc 300
agagaaaacg aatgattcgg gcacaggctc tgagagggaa gctgagcccc acttcattcc 360
ccaccttctc tggcaaatca ggaaaaactc acctcacggt agctggagtt gatcttctta 420
gaacaagaga attactgaga tgaaagccct tccccgtacg tgtgctggca ggttatcagc 480
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gtgtaatgtc attcgtgtgc caagcacatc tttgccagca tagaacatgg ttttcccggt 540
 cgggctacac tcatagcgtg t 561

<210> 1226

<211> 553

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233836

<400> 1226

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 gggcgggtct ctcttatatc tactgtgctg tatatgctag ggtagccggg ctgcaagatt 180
 ctggacaatt ctctgcctg gtttcctgtc tccccgaga atgctggggg tagagatgtg 240
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 tttccccag agtcatttta ctggctcctg ataggtgttt ttaaaagatt actttgtaga 360
 caatgttttt tcttttttgg tagaggggta gataggactg ggggagctga aggacgcaca 420
 aaagagaaaat gcggaatttg ggagaaagga aaaccccggt aggcgggtctc aggagctgct 480
 aatggtcctt cctggaatct cacaggggtc tcaattcctt aactctacct ggaatcatca 540
 gtttattacc taa 553

<210> 1227

<211> 376

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233902

<400> 1227

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 gcttttgtgt ggggttctggg gatctgaatt cagggtgtga agcctatttg gctagtctct 180
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 gcaattatag tctacttcat ttctcctttt cttttattca gtatctaggt actcagaagt 300
 acaataagat gtaggtctaa tgggaacaat gcatgcagct catgttggag tggcagtttc 360
 cattcagaga gctcaa 376

<210> 1228

<211> 434

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233925

<400> 1228

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 aacacacagt ccaagtctgc tctactatggg tgaaaagctc tatgggtcag tttgtagggt 180
 tgtaccaaac aggtcactaa ggagctcacg gtttttaagc agttctggag aaaggaagag 240
 cagtatcacc attatctaga tcctgctaag gatccagttc tgagaggcac agagaaagga 300
 gccctgggga gagcagtcct cagtgggatg tcatcataag gcagcttggc ttctccttgg 360
 ttacctgcac ttaggtgtct tgcagggact ttttgtgaaa gctgggtcca atggggaggg 420
 atcctcctgg tgcc 434

<210> 1229
 <211> 516
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI234038

<400> 1229
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 tgtgtctgtt tttaatctgg aacattctct atgaaacagc caattgttta cagcacacac 180
 ttgacatttg actccagcac cagtggaccc gaagctgtca gctctggggc tataggctcg 240
 acacaggaga acgctcttca ggccactgag gcttctagct caggtcctag catcctagcc 300
 tttcccttcc ctggcacact ccaaaaccat aagatcacaa accaagactg acccttagcc 360
 aagcatggga cagaacttat gcatgatggg gcacagggca gacctttcct gacgtccacc 420
 tggcaggcct ggctaaccag gaggcccgag cctcaacctt tccagggccc tacctagctg 480
 ccaagcagct gggaagagga aggaaggaga aaggag 516

<210> 1230
 <211> 319
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI234079

<400> 1230
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 aaaagcttct ataagcagag tategtttcc tgccccctcc ccaaaaaaaa tcagcttcag 180
 gcatacatTT gtgtttatgt ctattccttg agaatgttac gttagcagtg cataaagttt 240
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 cagataaaaa tccaagag 319

<210> 1231
 <211> 530
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI234090

<400> 1231
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 catatgactg ggaagagtcc caccagagg aacaaagggt aggcagacag tgatactcac 120
 tgcagagAAC taaagaaac gctcacttgt agcttacaca cattaattct aaagaactga 180
 cgggaggccc cgcacggcg cctacacttc cgatacttct gagttcatac accgcagaga 240
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<210> 1232
 <211> 564
 <212> DNA
 <213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI234105

<220>
<221> unsure
<222> (1)..(564)
<223> n = a or c or g or t

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atgaagtga tggcgaagga cgagttagat aaaggtgctg tagagatcac agagccaggg 180
gcatactga ctggcagtct cctccagagc ccttggaggg tagccaatct cagcagcatt 240
catctggctt catagagaga agcaggaggg aagtgaagcc tcctcaacc ccaccccca 300
cctcagttcc gtttcctcct tgtgtcctt gacccagatt ttgggtcttac tgaggcccag 360
tgttccaaca atagaaggag gtaggggcaa aggactggag gtctagagcg tgggtatctt 420
cccaagattc agtctctgt gccacgggag acctttccag agaggtgaga taccagatgt 480
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tacgggcacg gnacccatgc ggg 564

<210> 1233
<211> 610
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234107

<400> 1233
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aaaatttaag ttttaaatca tgttccataa aaattctaag agtggtataa aaatattaat 180
ttatactaac ttacctagaa aagtgttaga aaaagaatct catattcaaa ccaatcatct 240
aagaagtaat acaatacaat tatgcattct taaaagggt ctaatttgaa tacaatgtag 300
aaggggagaaa agtggacaaa agctactgaa tttacactca ctgtcctatg ggggaagtgc 360
agacaaacca gatgtacact aggcattttt taatgtatat tttaaaggaa taggaaagct 420
gttttatagta tttttactgt ctagtcaaac ctactatgtg gtgaactgat cattcactac 480
aaccttgagt tgatccaacc tacctttctc atttatagaa aactacaaaa gcttctttta 540
ctagtgtact cttcccatca ggagtacacc tgccatctct gaagggtcac tgacaggaat 600
caaagggagt 610

<210> 1234
<211> 517
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234133

<400> 1234
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agattctctt cctgctgccc ctgctggtgt tggctatcta gctaaacaga tcaagccagt 180
agttgttaac caaactcccc ctaatttgcc acgactgttc tctgaacaag tatcattgct 240
gatgaagact agatgagatg ctaggctgag tactctgagc ttcaaagggt catttagccc 300
aggggtgactc tgttgtgagt aagaggtccc caagcagaga ggacagtgag ggggggtgca 360
caagcagact gtctgtagt aggcctggtc agccatcaaa gtgaagaagc aggaggcggg 420

gagttccgcc tctcccagcc caagggctga aagcctggtg ggaatcacac ttccgagtat 480
 gggggtggtg caaggtcccc ctctggagtc ttagtgg 517

<210> 1235

<211> 507

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI234152

<400> 1235

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 cccaaattgt gaattcatgga acttttactt agtgcacaca caatctactg caaactgaaa 180
 tactaatcta taacattctag ctgaattatt ggatccattt caggattgtg cttattatct 240
 cagaagatag gaactagcaa aaatacacat tccttttgca tattcccacc cctgtattac 300
 gctgtaaaag aaatattgtt cagtgcaccc cctaagaaat aaacttcctt ataggatttc 360
 tctctttctc tctctatata tatctatctc caaacagagg aagagcacia tgcaactttt 420
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 ggaaggttcg gtttttgatc atcactg 507

<210> 1236

<211> 357

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI234223

<400> 1236

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 gatttaaaga aattcttcat tttatcaaag ttttagaaag caccaaaatc ctgtccttga 120
 cactttttaga tacacatttt gggtttttat tgcgtattac agactatgaa atgtgcattg 180
 caagtcaaca agagattctt ttcataattc caataaaagc ttgaagaaac agacaacaaa 240
 cacaatgaca agagaaattc ctgcttcaaa acaaaacatc agaaataagt ctccacagtc 300
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<210> 1237

<211> 448

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI234361

<400> 1237

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 aaaccctaag tctagatgtt tcagaatgag aaattttcag attttagaaa ggtaattcag 180
 tgcatacacc atactatata aaccctcaaa agagtgtgtg gcagcacacc ccaataatca 240
 tacacattaa tatttatgca acaaaataaa tgaatattca cactaatggg ataagcagat 300
 tcagtgtcag attagaatac atccagaggc aaatgacttt tggtatcaag cttatgaaaa 360
 ccttgttatc agaacttctt ggattttgag actataatta cagataaagg aatgcagacc 420
 tttgaaactt gtttgataag acataaaa 448

<210> 1238

<211> 501

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234496

<400> 1238
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tgaccctca ctctgaaaac aaaagcagaa acaattattg cttattttcc ccctctactt 120
tgtctgtgct actgtaagag aagggagaaa gattattaca ataaataaaa atagagatgt 180
aacagagaaa aataaatcag tctagatgag aagtattagg agcaacagaa atttcattaa 240
gcagtttaaa aataagcttc tttaaaaagg ttgccttatt aaaataaatc acaccaaaaa 300
tatagcagca gagaagaagg atacatacaa gttaattgca catcagtccc atgcaaaaac 360
gtggatcatt agccaaagca gtagtactca gaatccagct tgggatgctt gtgcagagct 420
tgagatcct ctatgataga gctgtcactg aactgatcca agtctgaagg ggtctgatgg 480
cctggtacat catctgccaa a 501

<210> 1239
<211> 499
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234810

<400> 1239
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gcagcaatag tgtttggtcc ttattctttt tttaaaaatt gtcataattaa aaagaaaagc 180
aattggacca tgttaaatgt cactgctaaa caacaactta aaaacgcccc ttcataaagt 240
gaccaagcta ttctgagagg gttgatgctg acatgtccag taatgatgtt acaatttgta 300
gttttaaatt cagtaacttt aagggtccaca aatccagttt actttaaaaa ctaaagctat 360
tttaaaactt aaaagaatat ctcaacctga ggagtatttt aggtcccaaa tccagttttt 420
taattttatac tccacaaaag agagagagag agagagagag agagatgggt tgcaaccctt 480
ggcctatggg ttcccaggc 499

<210> 1240
<211> 681
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234830

<400> 1240
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tcacagcact tgggaggctg gggccagcct gggctacagt tgaaaatttt gtcacaccct 180
caccatcc aaataagcca caaagtctta tcagaaaacc aaacagcctc aagcagaaaa 240
attctcttta gtaaagcaca caagaagggt atgctgtctg tcagtcaggt tcaactaact 300
ttcttaatto tctttgattt cttcccttgg tcttctactc cattctctgc aggccttctc 360
ttcaaccctt tcaactttct cgtctgtagt ttgcttaggt cttgcttctg catatgaatc 420
cttccaaacg ttgtaccaa agtatcctga gagatattct tcctcttctt cggcttgaga 480
gctttgggca ctttcatgga cagtttataa aggtcgtctg atgctaagtg tgcctcctc 540
acaaccagat ccaacgacgg cccatctct tctagctcga ttctcggtgt tctgcaccca 600
gatttcttca gcagcagctt atagcttcca aagtaaactt tcccattcag tgccgtgaag 660
tgcagaacat actctaactc a 681

<210> 1241
 <211> 575
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI234843

<400> 1241
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 gaaaagccca ctgtccctcc atgctcagac agggccactt tcacacacta gcctaactcc 180
 taccttcttc atgcagcacc atcaccacta ccaacctcac agaattaaca tgcagagacg 240
 tgtctgagga tggactagtc ctgaccaggc ccatgaggct ctagccatgc accctggacc 300
 gtgatgcgca ggacagatga actggctggc acaagctagc ccagaatctt tggccagggtg 360
 gaatgattca catactgcct tcacgggtgtg gccctgttg gtatctcttg ccacatcttc 420
 atagacactc tgcactccaa tctccagcct tgtgcagccg taagtcaaca tgtcacttag 480
 gtgccgcttc atgcagtaat caggctctgtg ctcaatggta atccctatgc actttgtgag 540
 gcttctctcg gaatacttga ttgcctctc gtgcc 575

<210> 1242
 <211> 477
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI234927

<400> 1242
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 ctgcactcag ttttgaactt tgggcagttt cccatagcct cctccattca ttaattttaga 180
 taactttaat aaaatatcaa tttggagata attttaagga cataatgaaa gccgaatttc 240
 taatacagtt cttacctaata ttcctatgcc ctttatgccc ctttgcccct aggagagctg 300
 accccagacc tgtgagaatg ggggagctgg ccctgcacct cacctgagta gcacagtaga 360
 gctgacattg gctgcagggg cagagtaagc caggcctgag tttgtgagca tgggagagct 420
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<210> 1243
 <211> 484
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235046

<220>
 <221> unsure
 <222> (1)..(484)
 <223> n = a or c or g or t

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 cacgaggtct tggttggttc cacaggggac agcagggcct tggagccaat gtgtggngnn 180
 gngngagaa gtggggnngn nggttccttc ccggaagtct ctttccttgg cagtctgact 240
 ccggggggcc aagtcaagtg gcgctgtagc agacaggcca aggaaaggga aaattggctt 300
 tctgtttaat tggcaaatgt tccagtggga gggctctggtt ttgttgggat gtgttacagt 360

atatgtacat gtctatggac ctgagtccttt aaggaattta tacatgggtc agaaaagatg 420
 gttggtaaaa tcttgattat ttctttttgt taatttatct caataaaagc ccactggaac 480
 tcca 484

<210> 1244
 <211> 486
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235224

<400> 1244
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 tccgtggcag gcaggcaaag tgatcgctct ggtagccctt ctcagagccc atgaggatct 180
 gatctgtcca cagaggctct ccatggctgg ggtgtaggcg aaccggaaac ctgtggcatt 240
 tcccacagcg tcgaatcctt tgagcatctt agtcatcttg atctcataac gctggtataa 300
 ggtggtctcg atgatttctg gggaacccat gaatttagcc cttataacca ggtccgagtt 360
 gcagaaagct gtctgtgggt ggggtggggc acagctacag gctttactgg aagctatcaa 420
 tgatagcaac aagaggatgc cagaggccag agatgcaaag ggcgccatcg tggatatctt 480
 agcgtg 486

<210> 1245
 <211> 623
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235234

<400> 1245
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 cagtttccag taatatctat tactctattc agaattaagt cttccacaga caggttacct 180
 ggaaataaaa gcctgttaca ataagcaaag ctttaaccag aatggctact tgtcgtgcca 240
 gaaaaaagct cattcctata ggaggaatga tgtgctgtgt aaatggccac agatctcagc 300
 ctttagcgga ctggaagtct attatccaat cccgcattga gtagttcagt gaattttgaa 360
 aatcagttta cctgtaacca tgctggcaat ctttaactga tatttattca gttaaaaaat 420
 aaattaagaa atctcttaac tgatgttcct tgatttacat tactaaaggc acacagttca 480
 tcacaatgca attctgctat cagaattaca tgagactctt tgcttaggtt ttaattagca 540
 gtaaggatca caaattcaag ttcttaatta tcaataattt gtcagctaag gtacattcag 600
 gcaagagctg caactacaga ata 623

<210> 1246
 <211> 442
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235277

<400> 1246
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 gcaccacact gtgtcagtcg gttcccacac tgctgctaac acagctgggt tgcttaggga 120
 gtgcccact tagccagatc aaggggaaccc caagagagca ggggcaaadc ctgcctctgg 180
 tgccaagcct cagggcaggc aatcctggag aacactgccg gccttgggaa gcttgggaga 240
 cctctaggct gttttccctt cttttcaaat cccacaattt cctgacgggg agaagctgta 300

attagcccag accaggcaac agatctcagc tagaggtaca gctgcaggga aaaccccatg 360
 gaatcttggg aaccagtgtt tttccaatta caaggaccga ggaataaaact ttttctgtgg 420
 gttctattga aaccctcgtg cc 442

<210> 1247
 <211> 619
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235282

<400> 1247
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 ggaattcagc aaaaattatt aaaacgttca cgtcccaaaa atggggctgc ccacttgccc 180
 ttccttgggtg tgccccaatt cttcctggcc ctcaggggag gggagactgg gggacagtta 240
 ccaaagaatg tgttcagccc taggagccac agagggggca ctggagaggc aaagacctgt 300
 ctggaaggga tactgagcat ggccatccca gacgtgcccc taaaagtggg agctggggct 360
 tgggggtgact tccctcaact aaaaaatact cctacctcag ctagagccag atattccaga 420
 caggttcaga gagaactcca cctcccaga actaaccoca ggaaaggaaa gctgggacac 480
 tggagccctg ttgagtgtct tgtacaggct agaggctgtg ccgccagatt cccggggtaa 540
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 gcagcatggg gggagggga 619

<210> 1248
 <211> 479
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235348

<400> 1248
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 ggcagagcag agttggaatg gaaaagacag ggctggagat gagaacagtg gggagcgggg 180
 atgcagaatg acaacagcca cacacgtgcc agtcaaacac tatgtccctg cagcaaatca 240
 gataccaaca agtgtctgca gtggctgggtg accctgccgt ggatgcagag gaaataactca 300
 gtattaacag aaaactgagc tgcagccact atgagactcc aggagagcac caggtttgct 360
 gttccttgta agccaggaaa gctggcctct cccaggggga agcagactga cactcaccca 420
 tttccttgcc ttcccataca agacgttcct ctttgagaa atgagaccct ggctagtca 479

<210> 1249
 <211> 571
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235349

<400> 1249
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 cgccactgaa ttttcaatac aaaaagttta caggcgccgt ctgctataaa actacagcgt 180
 tgagatgggtg gctaggtagt tggggccct tctcgccgt ccaccgcgca ccctgtgggtg 240
 ggtctgctgc tagactcatg tggattctgt acatggttat aacaggatta ttacagctcc 300
 agcatgtttt aacatactac accacagttc gataccatga gcaacagggc tacaccacgt 360

agtgttccc gatgtgagat aggagggtag aaccagttag ctggactcac cgaagcacia 420
gtccaggaca actctagaaa gatctagctg tctctatacg attcttaaac atctccatcc 480
ttccaaaccc ctaaacccca acaaccgat aacattaatc tttcattagt tatataaaaa 540
taatcttaga ttcattgctg acatcaaact c 571

<210> 1250
<211> 430
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI235360

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taatcacggg aggtcttggc atcaatgaag tgggatgatg ccacagggctc ttcctgcatg 180
gttgccatcc agagcttgag ttttgggggtg tgggtctatac actcattgag ctccagtgct 240
tccagtcgct gaaaccacgg ccaaataaga taatcgatca ttgagagcga attcccaccg 300
aagaaggctg tcctcttatt agccatagcc tcttctagct tgctgaactc tttcttcagt 360
tcttcttcta tgcccggatg gtcttctttt ctcttcgccc taataaaaact cgtaaccaga 420
gcctcgtgcc 430

<210> 1251
<211> 362
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI235460

<400> 1251
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catagaacia taggcaattt catccggagc gtcattagcc attcattctc tctttctgca 180
caggaatggc tgccctgcag gggcagcaac tgctttcagt caagtctcca agctcaagct 240
cccagccaaa gcccttctc ttgcgctgta ggttgggccc acctggagca aaccttagct 300
ctgaagagaa tgagctatca atctgtcaat cctgtccgtg tccgggcccgg gtgcctcgtg 360
cc 362

<210> 1252
<211> 499
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI235584

<400> 1252
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acggaacggg ttaaacccca ggtagtactc cttgcacatg acctggtttt ccatgtgggt 180
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tgagaggttg acgagactgg cgtgccccca ggcagcaggc atgctggctg gagtgttcca 360
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gtacacgctg gaaaactgg 499

<210> 1253
 <211> 494
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235675

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 cccaatttcc tcctgatggc agacctgatc tggagcagga caggacacaa gagtctcgtg 360
 cagcactaag ttctctccag cactccagcc aacaggctga tgtgaagata actgtgagga 420
 ccctggaccc ctggacccct gctggctcct gtgaggagga ggcagggatt ctctcaaagc 480
 tgggtctgag gccca 494

<210> 1254
 <211> 571
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235689

<400> 1254
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 tgtcagatgg attcctgggt taagactggg tcgggcacag tcccctttgg ccagacaatg 180
 gcatgaacca cacaggagct tctgccagt ccaaatttca gtgagggacg actagagctc 240
 acacaggctc tgtcctcttg gcctttttct cagacctcac agcgtcgtca tgggctttcc 300
 tcttctctgc aagcttgttg gcctctcgga ttttgcccg cttgccaaac atgatctttt 360
 gataaaggta cttctctcgc ttcttcatca tcatgatggc caggcgcttg gcctcacttt 420
 cttcctcctg ggccaaccgc tgccctgtct ccagcttcac agtgccggcc ataacctggg 480
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 ttgttgacga tgggttcatg gaggaggaat t 571

<210> 1255
 <211> 471
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235842

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 aagatggtga gacgaaatgt gaaaaggcaa attcacaaag gcatttcaac agtgacagc 180
 tctacacca aatgctgcac aggaatacaa tcaaaaacac tgtgtgccct ctcaaggaaa 240
 ggggtgtcct tctattgatt aacaatacaa aggcctctt gtgagtataa gttcttgaga 300
 ctgcagaaaa aatgaaaata catgtctctg aaaactgatg ttctcaagac accctactga 360
 cctcactcag aaacccgttt gcctctactg aaaaagggtgc cacctcacc agggtccagt 420
 tctcctgaga tacacaatta atgggtgctga atggcttccc tgaatgccct g 471

<210> 1256
 <211> 516
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235895

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 agtggctgta gaaggcaagg ctagaccttc aaatcaaatg agaatacatg atctttacat 180
 taaggagaaa gcattataaa agtacaaatct gttaaagtct agaagacgta ttgaatttgc 240
 tgaagaataa gctcttttatt tacctcttca aagaaccaat tattttcttc acttcttctg 300
 gtgcacacct gtcctctttg gtgacgatag gcaataacaa tgccaagtta cagaatttcc 360
 aagcctcccg agattcccca agatcaacat aacacttggc cacatacata tagttggaca 420
 cagaataccc aggttgcaat tcttcagtct taaggaagtt atgcaaagct tcatgaactg 480
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<210> 1257
 <211> 670
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235948

<400> 1257
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 tttaccatgt aaaacatttt agaagggatc tagtaaaatg aataaaaagtt ataaaaagttg 180
 tatatcatga ggaacgtgac aaaaaaagca aaaaaaaaa acccaaaaaa caaaaattcg 240
 aggctacttt atgaggttgc atgaaagagt cacatgttcc cttaaactctg tgatttaaat 300
 tccaattatg taagtaaaga ctcccttcca atttagggtc ccagtccaat gtaagcaggg 360
 tgaggtggag gtaggagata gggttggagg gctgactatt ggcaaatatg ttataggctc 420
 cattgctctt ccatagaaat ccttctagac ctttgctgaa gccaaaccacg gcaggactt 480
 ggttttcatc cttcttcgag aatgttgtaa agaactgtag accatcatca ggataaagga 540
 aaatagcata ggagctggaa tttgaggagg ccagaacagc ctggaacgtg tttctcttgc 600
 cttcctcaac aaggctccca ctgggcccctc cttagggagc catggattcc caagtgacaa 660
 ccaccacact 670

<210> 1258
 <211> 673
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235950

<400> 1258
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 taaagcagct cctcacttcc tacctgtcag acagcatgga catgttccta aactggggca 180
 ggttgccctt tctcctgaga aatcttagca gggtaaaagt tacttgccag ccagtctctc 240
 tgtgtgagaa agttccttct aaatttcac aactgagtag taagggttct tgaccaggcc 300
 cagagacagc tacagccctg ctttttatct ggtgtgcaac ggccatgggc atgtgaggct 360
 ttcagaatgt gcttgaccct ttcctatgta tccatctcac ttcatatctg ctatctttcc 420
 tgtgtccaga cagcatgcag cccagtttag gaagacttgg gtgggaagag gggtagagg 480

caaggaaaca atccttgtct caagtctggt gcacttcatg gaacatgagc tcacggggga 540
 tggtgttttc tgggccaac ttggttgctg cccggcgctc aaaggcagca acgttctgct 600
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 aggaaatcga gaa 673

<210> 1259
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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI236021

<220>
 <221> unsure
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 aaatttccaa taattttaca aagattcctt atcttcactt gaactggaca taaggaagga 180
 caggccctc aggttgctgt ttctctgctt gtagaaggaa acaaaagaaa cctgtggggc 240
 ggggaggaga gaaagaactg gtgactctca tgtctacttc aggacatgtg aagaggcccg 300
 tgtggagctg cacacctggt aaagtccagc acttgggagt ggggtcaaga gggtcacaag 360
 tttcagctta gctcgggcta catagccagg ctgaacgata actgtcagat gactttccct 420
 atgatttaga gcatgctacc acctttaaga taatgagaat ctcanaagct gtagtatttg 480
 aatacctttg aagacctcag acagct 506

<210> 1260
 <211> 482
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI236027

<400> 1260
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 aaggtgcagc atacagaata aagaattaag aaaagaagga actgggactg ggggtggggc 120
 ctcttgaggt ccaaagttgc aaacaaataa aaaaaaaaag taaaagattc ctacgcaag 180
 aggcatTTTT ttttttgcaa ataccatgca aaacaggcag ctggcgagag ccttaagaga 240
 accctataa ataacagaaa agacactcca agcgttccag tacgaagact cagagcacag 300
 gggagaaaag gaaacaaaa tgccttttgg cgtttcaaga tatttggcac tctcgtgatt 360
 acattgttgt tgttgtttgt tacagtccat taaagagaat aaagtgcac gatattgaag 420
 aaagaggggt tcgcacaaca gacccccaag gggagggttag aaaaagctcg agcatgtttt 480
 gg 482

<210> 1261
 <211> 484
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI236036

<400> 1261
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tttgggtatca aaagcttcaa actgccagat ttagtgaaaa cttttgttaa gtatccagat 120
gttggggacca caaagacctg ctcttggggc aggtcactgg actcctgagg ttcacctgag 180
gttccaatgg agcacaagga aaggatgggt ggctgggaag agctccatct aatccacgtt 240
gccacacacc agcctttata tcgctttctg ctcttggtta ggagtagctt ccaaaggaaa 300
atgggatctg tgtgggtcat aggaaggtcc tctgtctcag tccatgatac tactagaaac 360
gctggcagga gcaggaacag aataagtcag gacaaactga aagggttttag aggaacctgg 420
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tctt
484

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<210> 1262

<211> 454

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236066

<400> 1262

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atgattcagt tagtaacact ttcacgagtc attaggactg atattgctct gccataaatg 180
aattgaataa ccacttcaaa tacaatcagg attaatttga tagatttcct ttgtgtctgt 240
gtgtgggtgg gtatataaga cacatacaat gaatgaccaa atactacttt aagggtttcag 300
tagagaaatg aattcgatgt ctgtaagtta atcaaatgtc tcttactttg tgacatgttg 360
gagagactga gtcactagct tgtcactggg taggtgcaca gcttcaccaa aaagagcttg 420
gatacagatgg tggcatccta gtgacaggtg aacg
454

```

<210> 1263

<211> 687

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236084

<400> 1263

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tcggtttcct gaggggtccc acatctccta ggatggcaca ttacagctcg tagcttcctc 180
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taaccgcctt cttaaagtgt tgcctgaata tgtgggggaa cttcttcctg agccatttgg 300
gcacagagaa ccagagaatg atgaagatca ggaacaggag cagcgctaag gtcagcgcca 360
ggaacaagggt aagaacctgc aaggggcgct ctcttgattc tctctctgga gtagtcacag 420
cactaggagt ggtactggga gagaggctga ccacaggggg tccacagacc acgtctttct 480
ccttggtccc attcttaagc acagaccttc cgtctagaga gcagttcgtc cagggtcggc 540
agacgccggc gccgtcctgg tcattaaacg ttcccaagcc acagttttta caacctgct 600
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687

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<210> 1264

<211> 292

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236089

<400> 1264

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 gatctcttga gcatttcttc caaggacaga cttgggtagt aagccaggta gaaggcaagc 180
 gctcccacaa aactgtcacc agcacccgtg gtgtccacag ccttgactgc ttctgtggga 240
 atgtgctttg gaacagggtc tgcctgtgac agtgtcactg ctgcggggcca tt 292

<210> 1265
 <211> 548
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI236106

<400> 1265
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 ttacaaaata taaaacaaaa atttgaaaaa gaaaaaagaa agaagtacct ttctggctac 180
 acacatgatc agcttttagca ctgaaaggct ccccttctgt ggtcacaatc acaggttcaa 240
 ggggttaaac catctagcag taaattctac aatgatgtag agcatcaagt cactgcagtc 300
 actcagttct gagacgctgt tgccttaggt tagcatttac acatgacatt catttcacag 360
 acacagaaaag caaaccaaca ggtaaacatg cttacacgga ctgcggaaat cttccggttt 420
 aaaactgttg tgtttgtctt gtttcttttt ttttaagaaa atgctcgaaa acaaccaaga 480
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 ctctgtgcc 548

<210> 1266
 <211> 612
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI236146

<400> 1266
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 ttccaccctt ctttgagaca cctgagctca ctgggtgaact ctgcttccaa gttctcctgc 180
 aaagcacacc acaagctcag tccatgttcg cagcccatca gcttcagttc acgttccac 240
 acttccagat cagtaacaga ggagaacaca caccatacag cattcacagc agttgacaga 300
 ggggagggaa gtacaagtat ttcacttaac acattcagct actgtgggtt tcctaagaac 360
 aaaactcaaa gtcttccaac agacgtggat gtcctctgat gcagaaacac tcgtacgtta 420
 gttatctgct atcattgctc tctgcacact ctgcaccaa agccacagga ttgagggaca 480
 catctctcca agttaaaaaa tatccatttt ccaccaccaa gtctttgcac gcgctctctc 540
 cttttctcgc tcatactagc ctttcatgcc tcggcaccac catcaatccc acacaagggtt 600
 tcaaaaagttc aa 612

<210> 1267
 <211> 503
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI236227

<400> 1267
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 agtaacataa tgatcttgaa aactatagca aatagcttga cagagcaaga ggacatcaag 120

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| tccgacatac | tttctcattt | ttgtgaccac | atctccttgt | tacaggtgtg | aaacttaaac | 180 |
| atctatttga | cacttttagca | ttcttttgctt | atcaaattcc | catctaaatt | ctgagcccac | 240 |
| tctccctca | aagtgtcata | ttcaacagca | ttgtagacca | aaaagagttt | tgtgataaag | 300 |
| atttccaaac | aaagaagtat | gtatcagact | gacttattga | agacaaaata | tttcattcca | 360 |
| tttgagcctg | ggtatgaggg | ggaaatgcaa | ccttcgggtc | cactttcctc | cacctataat | 420 |
| ttatgccttt | ggatgtttta | cttacatgaa | gacccctttt | aaaaaagtag | caaatcagca | 480 |
| gacgtgttgg | atgtaatcaa | aat | | | | 503 |

<210> 1268

<211> 398

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI236294

<400> 1268

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| ggggggaggc | agtccttttaa | tgggggtgggg | cacaagatag | cagaacttcc | atccaagagc | 60 |
| cacaggaact | gaagccagcg | tgacgcggca | ggcttttcgg | taacaatagt | tgagatggca | 120 |
| caggtgaaag | gttgggcaaa | caattcagct | ctggtgagct | ctgccacgcc | ccactgacag | 180 |
| catctggtac | agactaactc | aggcgtggaa | aacgagccaa | agtccagagg | caggagccca | 240 |
| caaggggaac | ctgaagaagg | gaggacagct | catcctgatc | ctcgatcgaa | gttttagggg | 300 |
| gcacaaaaac | ttcctggatt | cctgagaaca | cagtagcttc | caactaacac | ctggtcagca | 360 |
| accgtctgcc | tgaagacttc | caccttgagc | ctcgtgcc | | | 398 |

<210> 1269

<211> 529

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI236301

<400> 1269

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|------------|------------|------------|------------|------------|------------|-----|
| caacactt | tatcagaaaa | aaagatcagt | tttccaacaa | taattccact | gaatgagtgc | 60 |
| acagcatttg | catgaactac | ctcagggcaa | tatcagtaca | aaacagttca | aatttgtaaa | 120 |
| aaggtcattt | caaaaggaaa | cctcctgatt | acttcagggt | gagtgccaac | accactggga | 180 |
| accgaggaca | taaggcagga | acatggctac | cacatgggtg | gggaatgggc | tgctgatgga | 240 |
| atccgaagg | ttgtgaaagt | caatcacgtg | gatgtcgaac | accagcacag | ctgagccagg | 300 |
| aatgctccct | cttccttctt | ctccatagcc | caggtgagga | gggaccacaa | tccttcgcct | 360 |
| ctctccaatg | cagacaccca | gtaagccttc | atccatccca | ggaatcacat | agccctgccc | 420 |
| aatgtacgtg | tcaaagggtg | ggttccgtga | atagctggag | tcaaagagg | tgccatccag | 480 |
| aagcgtgcc | ttgtaatgat | acctaaagg | atccccactc | tgacttttc | | 529 |

<210> 1270

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236302

<400> 1270

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ggggcagaag | caaagtctctg | gtttattgtc | cctgtcccag | tgacagatgt | ggatttgcag | 60 |
| gtgttggaac | tctctttatt | gacaccaact | cacagcttcc | tactataaaa | ctccagaatg | 120 |
| ttcagcaagc | agcagcttca | tgtcctttga | tgaggacaaa | gccatgattt | gtgtgggttg | 180 |
| ctaagtctgg | gaaaggaacc | ggcagacaga | tggctttcct | cgggtaacac | gctactttta | 240 |
| ctcccccggt | aggtgggtgta | ggaccatggg | ctcagcagca | gaggtagctg | gaacttctgg | 300 |

gtctcctttg taatagtga aacaacctct acatatgggt aaaagctctc ttgaccccg 360
 tctttccagt agcgtccgt gtcgaaggac agcttatagg tgcctggctt catctggctt 420
 tgtgtcagga gccaggaca gcgaccatcc aggtttgtgt agcttgttct cagctccatc 480
 cactgctgac tgggggcct 499

<210> 1271
 <211> 575
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI236332

<400> 1271
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 aaagatgttc aagaattctg cctccaaacc acatacatga ctgccatttt aaacagaccg 180
 aatttcaaac atgcaacaac gccactggta ataaagcttt ggaatggatg ctcaactctat 240
 tatttcta caaacgagat agaaagccgg cgagttggaa attttattct aaagcacaat 300
 ggaggtggtc attgtctata ccggcacacc tcaactcctct gctgccattt ttagcaagta 360
 ttctttgtca atcttgaata gtctccatcc ctcttcaactg gacagatccg aagcacctct 420
 tctttttag aagttgatag atggttcatt ccactctgct accaagaagt gcatactgct 480
 gcagcgacac ttcatagcaa cctggcttag attcttcaaa atttctgato ctataccaaa 540
 gcctcggtta tcaactcatca caaagaagtc ttcaa 575

<210> 1272
 <211> 552
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI236338

<220>
 <221> unsure
 <222> (1)..(552)
 <223> n = a or c or g or t

<400> 1272
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 acacgtcaag aaatcgggaa gatgcggcaa ggggtggcag ccgcctgtag tcagccagca 180
 tctottagaa cgggctgggt tgcagcccaa gtctctcaca gaggtgtagg cagtgcctgc 240
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 acacaagtgg gacgttcgat cctgtagctg cacccaagtc cgtcttagag ggaatataga 360
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 acgtatctcc tgccaagacc atgatccctt tctcgccctt gttgacaaat ttctgaactt 480
 ccttcacccc gcgacgaatc tgcttctgct ttacggcctt cttgatgcat ttgtnaagct 540
 tgcgcgtcag gc 552

<210> 1273
 <211> 500
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI236366

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aaatggaaac ctccacaggg cacagaatcc atcaagatgg aaaatgggca aagcacaggc 180
accaagctgg ggctgcctcc cctgacgccc gagcagcagg aggccctcca gaaggccaag 240
aaatatgcaa tggagcagag catcaagagt gtgctggtga agcagaccat cgcccaccag 300
cagcagcagc tcaccaacct gcagatggca gctacgggca gcgggactg gctatcatgt 360
gccgggtgta tgtgggttcc atctactatg agctgggaga agacactatt cgccaggcct 420
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ataagggtt tgccttcgtg 500

<210> 1274

<211> 542

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236461

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aaaacagaca ataatgatcc taatccaggg aactaacttg atgatttaag ggcattttgg 360
agacatcaga aaagcaatta aagaaaaaaa aaatcacaac catctggaga aacattcttc 420
ttaatctaatt attaatgctt gcctgtaaat tagtcttaca gttgatgcta tagtgtggat 480
ctgaactctc cccacaaaag cccagggtgtt aaaaagcttg cctccttggt gaatttaggc 540
ca 542

<210> 1275

<211> 321

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236473

<400> 1275
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tatataacag aaaagagcac aataacttaa gtgttaaaca tctgtatgaa ataacttgca 120
aagtttgaca actatgcaca catagaacat gcgggtgttt aaaaaacaga acaaacaaaa 180
acaccacccg attctgtaga accagcatca tttcaccagc gggagagcac caagcaaggc 240
accattggaa agacaacaca cttggaaagt ctctataaat aaagcaaatg ctaatctggg 300
cgaaaaatcg gtgtctttgg t 321

<210> 1276

<211> 490

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236484

<400> 1276
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gttccccacca cagtctgctc agacacagca aacttggtgg ttctatatta aaaggctggt 180
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 ataccccaaa ctattggcag cagtttcaat gttatcaagg taaatgtgga atggagatgt 300
 tcttaaacad ggtaggact taagtctacc aactaaaaat catgattaca ttttgaaaga 360
 aaatgcacaa aaaccaaaca gcaaatattg agatcttttt catttgaatg taatcttaat 420
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 atttgcaaac 490

<210> 1277

<211> 439

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236566

<400> 1277

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 cagcagcaag ggctagagac agaccacagt gaggagaccg caggtcctga ggggtggggc 180
 aaaggcatgt gtactatact ggcacagtc acttggtgga aggtagaggt gggatagata 240
 ctgatttgca gataggaagg acagtgttct cttgtgcaga tggagaaaaga ggaatcctgt 300
 ggacaggaag tcctttttac atatttgcaa gagcagattt cacctcaaag gtgggtgttg 360
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 ggtttgcaga aaggaaaaa 439

<210> 1278

<211> 526

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236590

<400> 1278

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 agacactttc ccaaggggtgc tttcaaatgc tcaacatcaa tcattgaaat gcccacagag 180
 ctctgtgcaa gaggcctcca ttcctcctcc agacactgag gggagaccca ttttctttat 240
 gactcaggac cctgggggtgt gtgccctgag agggaccatg acattgtctc tgtgttaaag 300
 aacttgagag gaatttgcaa accgcactgc tggggagaaa acaactgatc ctgcagctgg 360
 gttgtggggg gaagccaaac tgcttctcct tttttttttt aaatcttcag tttgctaaag 420
 gcccacatgc tatcacatta ggggccttcc tagactttgc tttcaatgat tggagaaaag 480
 agaggagaaa ttaacaatgc catcatcttt tgtgggggtg ggggag 526

<210> 1279

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236599

<400> 1279

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 ctacgctttc tcgatgacca gaaaatttca gagcccttgg gaggccagaa tggttcctac 180
 ccagggtctc ccaccttgag tttctggtgg gaaagctcag gtgagaattt tagcctgaag 240

ggaggggggc tgtggccagg cacaggactc tctacccata agacactttc tgctcaccca 300
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 gcctagtcca gctcagggcg tgcgtggggg gtactcaggc agcctctgca gcctctcctt 420
 ctcagcctcg ctctcatctc gtgctatcac caatgaatgt gaatagccca tggccacctg 480
 ttcggagaag atgccatcca gagtcttcac ctctgagct gcagtagaag acttgggctt 540
 gtggtcccca tatcccaatt ccccgaa 567

<210> 1280

<211> 625

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236601

<400> 1280

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 cagccctgct tcgcatgctg ctacggttca ctagtgttg tattcttggg aataataaag 180
 caaatcactc tactggacag acttaatttg gaaagccctt atgcagatca gactcagtct 240
 catatgaaca accccggcca cacatgcgga aatgaagagc aaatgcagaa gaacacagaa 300
 aacccttgg caagaacagc tgctgcagac tgagccagc gctgtcagtg cagttcacgt 360
 cctcagaaga caaacgacct cctcctcag catatgagca gcaatactgt acagagctca 420
 gtggggtccc aactccacag gagcctgtca ccaaagtcac tctcatttag ggtcagagac 480
 tacagactca agctttttct tttttccctc ataatacaca aaatgtctag acagtcttta 540
 aaaaaaaaaa aaaaggaaga aagaaaatat aaatagactc agtctgtcat acagaatcac 600
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<210> 1281

<211> 481

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236679

<400> 1281

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 cagtaatttt tgaagacatt ttaaactgaa ttggctatat cagtgtagta tcatttgtaa 180
 aattacagtt aaaaagtttg gccagtttg aaatccatct tatttctccg ccttccacta 240
 ctcaatatga agctccattc tggcttgac aggggtgggt ttcagctact aggccaatgt 300
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 atgcacaaca agatgcaagc ccagactaga agtagcctta gttcaactac atagtatcct 420
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<210> 1282

<211> 519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236746

<400> 1282

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ataataacaat atgtggctag ctgaaattgt ctatcacata gcatttaaga tataaaaaggc 180
 ctcatgctag tttgttaaac gcaaaggcta ccagacaagc acagagctgg atatatccat 240
 gaggcttcca gatgacgcac aggaagagtg gcatccatag tgcaagacga gggggacgga 300
 gctgtacaag tgacacttga ctgagagtgg attagtcttc atgcctggac tgaaccccac 360
 agctcctgta atttagactt taaacaaagt aaaaagcaaa acccttttct gtatgaaaaa 420
 gaataaactc aattttacct ttggcaaata atatccccc aatgtatatg caactcaaag 480
 aactcagagg ctctctagac aagcttctga tcaacacag 519

<210> 1283

<211> 652

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236753

<400> 1283

cactacaagt catttttaatt ctaacactta tgtcaacatt tacagcataa atcactcatg 60
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 aatgtaaata cctcagtgtt tgccctctgat agtttgcaat gaccaagaca tgatactata 180
 gcctcatcaa gtgcaacttt gtacatgtct gatgcatata tggtgtgtac atgttggtgga 240
 ctgagaggac atcttcaggc actggctctc acctcctaac ttgagataat cttgtttgct 300
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 aaagctccag tgatgttctc tttctaaaga cacactgtcc ttctggggag gtgggatctg 480
 actctaactc ggcaccatgt ctagctcatt ttacaaaatt aacctttaca aagatctaca 540
 tcagcatcta gaagagtcac caatcaatga tcaagaaaac tgttatttgc ttttctttct 600
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<210> 1284

<211> 420

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236761

<400> 1284

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 gaacaggctg tatggtggag ctgagctagt gtacaatgca ccagttgtac agaaacaaaa 180
 atgaagttag ccatcttttg ttcatittaaa atggtgtttt gaatttcata tgcagaaaac 240
 gttttgttac attgcagatt ttaatgtatt taataaatgc aacatgcaga ttaagtgcag 300
 tgtatactga gtattttaa taaaatgtac atttcataaa tacagtttca agagaaagca 360
 tcattttgtg tataactaaca cattaagtgt atgtcagaaa ttgatgtaca aatatatatt 420

<210> 1285

<211> 522

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236771

<400> 1285

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gggtgggggt ggggtctgac atgtgatctg gttatcgga ccatgagacc caagcagaca 180
gcatggggcc accccaggat ggaggagcac taagttacag aatcagattg tttttaacct 240
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tggtctgcac accctttcta agcacacaca tgcccggcac cctgcagtct ccacgcatac 360
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gtgctgggct ggggacccaa ggaccagacc tgcataaggc actgcctgac cacagtctct 480
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<210> 1286

<211> 655

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236772

<400> 1286

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cacaggcaaa gaagacagcc tttgtgtcta tagcaagctc agaggtagca caagagagta 180
tccatctggt aacattggaa atcatgcaaa caactgagtc aaggcatggc attaaggtga 240
catcagcatg agttataatt ccctgggtac aaaacctata tattctttgg gtttcaaaaa 300
aattaaatga atggcctact tttatcttct ggacaaaaaa acaaaaaaaa aaaaatctct 360
aagagcaaaag tgcacatatt gtcctaacca catacatata aaatattcaa ggccacagat 420
ggaggtcgct agatgacaaa agaggatact gagaggtaaa gtaaccagag agagatgcag 480
gagggaaaag cccctctgcc tccatggggg atgcaaaggc ttaggcactg gaacacccaa 540
cgtggaccac actgcctgcc acaaggaact cctcactgag ctgacgtcac catcatcaaa 600
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<210> 1287

<211> 571

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236773

<400> 1287

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aatacgtgtt tatatacaca cattcacatc cttacatata cgcaccagga actcaggttc 180
ttctcattaa tttagtttca ttaattccct tctgggtgct gagatttttt tttaaagcaa 240
ttacagtatc caaagaacaa aatgactata ccatttgggt tacagatgac aacaggtgca 300
tttggtgaaac tttgatttat cttctgaaaa gtggctttgt ttggtgagac gggcaggatt 360
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ataacactcc tgtgagggtg cctcaaaaca catctgagga taccctgttc tcaaagtatt 480
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<210> 1288

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236947

<400> 1288

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 taaaccggtt tgatttctgc catttctaaa tctgttaaga tacaaaaaaa ttcactttcg 180
 acttcaggag aaaaccattt tgggtcttta catgttagct gaagggccta cacataagaa 240
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 atttctcaag tctttccata atggagccac agtgactcag ggactcagca ctctagagct 360
 tagcccagga ctctggtctt acaagcacta gcatgccgaa gacaccagca gcgaacaatc 420
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<210> 1289

<211> 382

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI236972

<400> 1289

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 gacactgagc atgagttttg gtccatttat tatttccacc tgtccacctg tccatctgtc 120
 cccagcccga aatctcacag acacttttac ttcaagctac cttgggccgg cgtctcagga 180
 aacagcgctg atacatggga cggaatgttt cagagcacat gacaccgctg tgaaatgaca 240
 ctagactcag tcaaggctct gtggaagcca acagcagcaa acttgctaga acagtaagcc 300
 agcaggaagg gaacgacggt gtgccctgct gccgacgcca cggtgacaac atgacctga 360
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<210> 1290

<211> 410

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI236989

<400> 1290

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 ttttttggtt gtttggttgt ttctcacatg ggaaagttaa gtataatatt taaaaaggag 180
 aattctgtca aaaagacact gtgttgggga ggagagtctg ggattgccat gtgaatcaca 240
 ttttcttttt tctcttcttt tctgacacgt ttgccatttt cctcttcttg gctggcgctg 300
 ggctatttct tttagttggc tgctggctgc caccagtgtg gtcagatttc tctgcattag 360
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<210> 1291

<211> 469

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI237002

<400> 1291

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 cagctgctgc acgggctccc ggaagtgtgt gctcgggttt ttgctacaca gcatgaagcc 180
 gatctggcca ctgggatagg tgggaatggt acagtaggca tagctcacca caggggaagag 240
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 ctggcaacag aggatgccat cttcttttag ggctgtcttc atgagctggt aataggactc 360

cttgaagagg ctctcagcag ggcccatggg gtctgaggag tcggtgatga tgacatcaaa 420
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<210> 1292

<211> 441

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237124

<400> 1292

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cagacggtgg aaggaaacaaa aaccaggccc aagcgtctgg ctttacattg caaataggga 180
cagggtgggtt cttgcctttc agaaacaggc ttggcagata ggcaaaactaa gaagtaaaaa 240
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gcaagaaagc acccggccct ttgggatata caaatattta tcagattctc tttgcttggt 360
acaaaaacag gaaagcttac agcagattat ttacaaacgg tatcctggga tatgattaag 420
gcagaggtgc actggctttg g 441

<210> 1293

<211> 451

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237159

<400> 1293

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ctgacaggat ggacccgctc tcacaccaac cggaagtga atcttaacat tccaatgatc 180
tggaaggctt tggtctaaact ttagaaactt ttgtttttct tttagccact agatttttca 240
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atccaagttc atttcttact tcttcccagt atttgaactt ctcaggagta acgtactctt 360
caaccttaag gtggcgcttg gtcggctgca tatactgccc gagagttaaa cagtccacat 420
cggctgcacg gagagcttcc tcgtgccgcc t 451

<210> 1294

<211> 471

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237189

<400> 1294

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aaaaacattc actctgacag ttaacatttt tctaaatgta acaatttgaa gtttctaatac 180
cactcactct aacatacagc cagatacttc ctatgttcct aaacaaacaa aacaagacaa 240
gacaaaacgg aacaggaggt attactctga agcccccttc cccaggggaga gtagatagga 300
cttggtgaaga gaaacccttc ccttttagcca gtatttttat tccctacagg cttcgcaaaa 360
gcgttggttaa caatgacatt tggttttggg gacctgaggg aaaggcaaca ttgacttaaa 420
gacaatggat attcaataag aataaatata tgtgcgtggt ctagaaagac c 471

<210> 1295

<211> 545
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI237207

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 agagaaagaa ggggaaaaat aataaaactt aaattcactt ttactttttt gcacgttcac 180
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 aagtgtgacc agactgtaag cggaagagct atagtgaatc caactttaga ggttacgttg 360
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 tgtttttacat ctgttgttta aaatagatga ttataacagg gcgggggaact ttttctctgc 480
 aagaatgtta catatttgtc agataagtga gtgacatttc ataccctgta tatatagaga 540
 tgttc 545

<210> 1296
 <211> 540
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI237580

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 aagttagata agggttgcca catttcagca ctccgaagtg tgggtcccca cctgtacaga 240
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 tctctgcagg cgtgattatt ttaaccagtc atttattcat ttgatagtga ggggtataatc 480
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<210> 1297
 <211> 610
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI237609

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 acatggtggg caggaagggg ttcggctgga agggatctga ggggtgggtg gcgtactgcc 180
 caatgaaaaat gcagttgggt tgttactgag cactactcat gggaagagag catcccaact 240
 cctgctctat agaacgctgg gagtgaagt gatgcacca gatggaaaat gactgggaat 300
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610

<210> 1298

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237614

<400> 1298

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cctaaaacaa atcccagata tcatatcgct ctgtgcacaa atgtttcagc ctttgtctct 180
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catttgaagt ctgggtcctt gtgccgaatt ctt 573
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<210> 1299

<211> 673

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237618

<400> 1299

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cagtgatagg aggccatgca gtgtgtgaga ccaggagagg gacagcagca gggtacagcg 600
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gcacgactca tgt 673
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<210> 1300

<211> 604

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237636

<400> 1300

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cctctaagaa aatcagccta gagagccctc ttgaagatgg ctttctaata tgaaatgaaa 240
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ccaaaagggg cttagataa caagatacaa ctcttttattc aaaactctca aaatggggaa 180
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 caggttctct gtgagatact ttgtgaaaat actctcccat ggtggacatg atcaatggca 360
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 gaaagagatt gaaaggagaa cttttaatta tgagaaaagg atccagtaag aatacactta 480
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 gacattactt gtattctaaa agg 563

<210> 1304

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI638994

<400> 1304

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 aaagaaaaaa atcaaaaacaa tgcttatttt ttaaaataac agttaattgt ctcttaaagt 300
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<210> 1305

<211> 399

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI638998

<400> 1305

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 cgcacactgg acatctgtac tegtatgctt cagcaggaat tgtgtgaccc aggaaacatc 240
 tgtacacaga tgtaggccat gcggcataca cttctagtgc tcagctcgca accctgtggc 300
 ctcttctaga ggagcaagta tgcaggaaca agggcagaag gccactctt ctgagatcca 360
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<210> 1306

<211> 448

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639029

<220>

<221> unsure

<222> (1) .. (448)

<223> n = a or c or g or t

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<211> 392

<212> DNA

<213> Rattus norvegicus

<220>

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<211> 388

<212> DNA

<213> Rattus norvegicus

<220>

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<212> DNA

<213> Rattus norvegicus

<220>

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<211> 413

<212> DNA

<213> Rattus norvegicus

<220>

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tcaaacacaa gaaggaagca gaaagggggg gtgaggagaa agcagtgttt gatatttcct 180
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tggtctgtggc catgtcaaca acatagcccc actctggacc tcaactctaga cactgtaaag 360
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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639151

<400> 1311

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gaacctcaca taattttgat aaataactct taaaaaatta tgcaaaaagt acaagaatgt 240
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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639158

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<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI639281

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<212> DNA
<213> Rattus norvegicus

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<223> Genbank Accession No. AI639310

<220>
<221> unsure
<222> (1)..(570)
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 <212> DNA
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<220>
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 <212> DNA
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<220>
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 <222> (1) .. (486)
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 <213> Rattus norvegicus

<220>
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453

<210> 1319

<211> 2002

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AJ000347

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<211> 3166

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AJ001929

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 <211> 1563
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AJ011607

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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AJ223184

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<210> 1323

<211> 1194

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AJ224120

<400> 1323

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<210> 1324

<211> 1442

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D00362

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| atttgtcttt | cccctgccct | tgtctctctc | cccctgtatc | tgccccaacc | cagaagccag | 1620 |
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| gctgggtccg | atctttctgc | agtatgtggg | atcacttggg | gccagtgct | gcctcactat | 1800 |
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| agctggagcc | ctcccttctg | cagatgcatg | gcacctgtgg | gtcagaccag | atccccctcc | 1920 |
| ccagcactcc | tacttagagc | aatgcagcct | ttcttttagt | tcccagctga | ccaacctcac | 1980 |
| acaaaagatg | accaacaaca | acaaaatga | agaggtagga | gcaaaggatc | aataaacaca | 2040 |
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<210> 1326

<211> 2496

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D11445

<400> 1326

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| tctaagcctg | ctgtgttggg | acctgagctc | gagaagcact | tgggaggtag | aaggagaagg | 120 |
| catggaagtt | caatagctcg | ttctaggtca | ataataataa | tgggtagtaa | taataataat | 180 |
| gataataata | ataaaatact | ttcaaggact | cggttttaca | atattcagat | tgacagtaaa | 240 |
| tagttgtgcc | agcaggctaa | tagttataga | aaggcatagt | cctttgcagt | taaactgggtg | 300 |
| cttgtgacac | ctgtggcttt | tatatcgggc | gtccttcagc | cagaaaaaac | cacagctttc | 360 |
| cgtggacttc | cttagtcaaa | ccaaatatga | ccttcgtag | gtcaggttag | gatgcttcag | 420 |
| gaccataccg | gagttggagt | tctggaagtt | cccgaggttc | aaaaagcaaa | gaagagattg | 480 |
| ctacagcatt | ctaaagtaaa | cagggtctaa | ccttggccgt | gatctttctt | ctcacctccc | 540 |
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| tgagacatga | acggaatctg | caaaactcaa | aagacagaga | agcctccatc | ctcgcaaatc | 720 |
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| aattgtgcag | tttaaagatg | gtaggcggtta | aatatctcgt | taaattaata | tttattggga | 2040 |
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<210> 1327

<211> 1196

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D12770

<400> 1327

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<210> 1328

<211> 2842

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D13623

<400> 1328

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<210> 1329

<211> 993

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D14989

<400> 1329

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| atagcctcat | ggagaaggaa | ctgattctta | ctggttttac | tttcatgaga | aaaggcacia | 780 |
| ctaattgactg | gaagaatcac | ttcacagtag | cccaagctga | agcctttgat | aaagtgttcc | 840 |
| aggagaaaat | ggcgggtttc | cctccaggga | tggtcccatg | ggaataaatt | ttcaaaaagt | 900 |
| ttaaatattt | tatgaacact | gatgtttatg | tttatgttgt | tctatgatgt | ctgaataact | 960 |
| gaatgtgatc | attgaataaa | tcctgttgtg | gat | | | 993 |

<210> 1330

<211> 2989

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. D16102

<400> 1330

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<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. D16478

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<213> *Rattus norvegicus*

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<213> Rattus norvegicus

<220>

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<213> Rattus norvegicus

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<400> 1337

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D38381

<400> 1338

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<220>

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D63411

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<212> DNA

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<213> Rattus norvegicus

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<223> Genbank Accession No. D85183

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1726

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<211> 1156

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D87991

<400> 1347

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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D88250

<400> 1348

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<210> 1349

<211> 1743

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. D88666

<400> 1349

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<210> 1350

<211> 2696

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. E00717

<400> 1350

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<212> DNA

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<400> 1351

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<211> 654

<212> DNA

<213> Rattus norvegicus

<220>

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<400> 1352

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<211> 1458

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. E03229

<400> 1353

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<211> 3225

<212> DNA

<213> Rattus norvegicus

<220>

<400> 1354

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<210> 1355
 <211> 355
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. H31144

<220>
 <221> unsure
 <222> (1)..(355)
 <223> n = a or c or g or t

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 tgtccaacac tccacattcc tacagggggt ccctgggaaa aggggggcctg gtcct 355

<210> 1356
 <211> 403
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. H31287

<220>
 <221> unsure
 <222> (1)..(403)
 <223> n = a or c or g or t

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 ttggcccaaa aaggcaggcg aaactgagac accagtactc aactcacacc ttggagctga 180
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 agacttgggc tgcaatcctn cctcaaccag gggatgtagc aaggattccc caggggncac 360
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<210> 1357
 <211> 283
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. H31620

<400> 1357
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 tgcaaggagc atcacgggaa gtctgggtctt accaaggccg tgaaggagag tacagttaca 240
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<210> 1358
 <211> 438
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. H31813

<220>
 <221> unsure
 <222> (1)..(438)
 <223> n = a or c or g or t

<400> 1358
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 gttaggggtg gatggacaag atctgagcga ttcctcttct ggaggaggga acgaacagtg 180
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 cagaaggcaa gaggaagtaa caaactgaga ggagcggagg aggaggaaag cagttaagct 360
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 gatctggctg atctagtt 438

<210> 1359
 <211> 275
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. H32584

<400> 1359
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 ggcttttgct ttttggtggg gtgagagccc tagctcccag ctcccctcac actacctttt 180
 gacactaaga cggaagggtt ctaagttgca ggaacaggat gaaaattctt tactaccctc 240
 ttcaactttt aggatgggca cttgggagtg tgagg 275

<210> 1360
 <211> 437
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. H32867

<220>
 <221> unsure
 <222> (1)..(437)
 <223> n = a or c or g or t

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 taacttcac ctgtcatgcy ggctagtggg ggtgaaccat tacctggcat ttnanttttt 180
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 aatcccgttt gctttcttcg tgtcactctc ggctggggag aatgtcctgc cctccaccat 300
 gcagccaggc gatgacgtgg tctccaatta cttcaccaaa ggcaagcgaa ggcaagcgct 360

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tatactgacc ctttggg 437

<210> 1361
<211> 396
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H32977

<220>
<221> unsure
<222> (1) .. (396)
<223> n = a or c or g or t

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gcatagtgtg ggtatcacca tgctcgtctc ccccgctccc aaggatggca ggacagggac 180
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gcactttaca atgganccca agagagcctg ccttctctga gaagacagga tgtctgtaca 360
aactctcatc aggttttttc cacttcagaa cccaag 396

<210> 1362
<211> 381
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H33219

<220>
<221> unsure
<222> (1) .. (381)
<223> n = a or c or g or t

<400> 1362
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aggaattgcc ccaaagcttt aaaaccaca gcttggtttt ttgttttttt actgtatata 180
cagcctaaac catagcaatc taggattatg tcattttaca ctgtgcaaaa tcctcaaaaa 240
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acgncctgac agtgatcccg g 381

<210> 1363
<211> 422
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H33426

<220>
<221> unsure
<222> (1) .. (422)

<223> n = a or c or g or t

<400> 1363

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acagaagtta aagaacctag ggaacattac tttggtttca acaggatggt gtttgttcaa 360
ggctgagagc ctcaagttag caatttagca gagtctgtat acaaacagat ttaccactgg 420
gg 422
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<210> 1364

<211> 569

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. H33491

<220>

<221> unsure

<222> (1)..(569)

<223> n = a or c or g or t

<400> 1364

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cgcgaggttc ggtcaggaag tacagcacat ccccatatat ctggcccaca gacaccacaa 480
gctgtaggac aaagcggaag ggtttgatga cggagaaagg cgatcaccac ccataggctn 540
agtgggtccc cagagacaag ctgtgacaa 569
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<210> 1365

<211> 299

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. H33832

<220>

<221> unsure

<222> (1)..(299)

<223> n = a or c or g or t

<400> 1365

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<210> 1366

<211> 335
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H33842

<220>
<221> unsure
<222> (1)..(335)
<223> n = a or c or g or t

<400> 1366
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tgaggataaa ctgaaaattg cttgatgaag gacat 335

<210> 1367
<211> 294
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H34047

<220>
<221> unsure
<222> (1)..(294)
<223> n = a or c or g or t

<400> 1367
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gattaagccc cgagaagggtg aacatcgatg gaggagccat tgccttgga catcctctgg 240
gagcatctgg ctgtaggatt ctagtgacct tnttacacaa cctgggagag agtt 294

<210> 1368
<211> 419
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H34186

<220>
<221> unsure
<222> (1)..(419)
<223> n = a or c or g or t

<400> 1368
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<210> 1369

<211> 405

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. H34687

<220>

<221> unsure

<222> (1)..(405)

<223> n = a or c or g or t

<400> 1369

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<210> 1370

<211> 684

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J00728

<400> 1370

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<210> 1371

<211> 950

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J00735

<400> 1371

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<210> 1374

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J03627

<400> 1374

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<211> 1444

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J03863

<400> 1375

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<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. J04943

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<211> 1021

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. K00996

<400> 1378

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<220>
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<211> 1389
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. K02814

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 <213> Rattus norvegicus

<220>
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 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. L07073

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<210> 1385

<211> 643

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L11319

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<211> 2455

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L16764

<400> 1386

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<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. L16995

<400> 1387

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<211> 494

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L18948

<400> 1388

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L19698

<400> 1389

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<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L22190

<400> 1390

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<211> 1363

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L22339

<400> 1391

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<210> 1392

<211> 2015

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L24207

<400> 1392

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<212> DNA

<213> Rattus norvegicus

<220>

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<213> Rattus norvegicus

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<213> Rattus norvegicus

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<223> Genbank Accession No. M10068

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<213> Rattus norvegicus

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<211> 377

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. M12112

<400> 1400

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<211> 1161

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. M12822

<400> 1401

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<211> 2639

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M14369

<400> 1404

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<211> 805

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M15562

<400> 1406

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<211> 982

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M15883

<400> 1407

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<211> 1161

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. M18527

<400> 1408

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<210> 1409

<211> 1161

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. M18528

<400> 1409

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<213> Rattus norvegicus

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<220>
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<211> 1247

<212> DNA

<213> Rattus norvegicus

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| gttgctggct | caattccctt | ggcatgcaag | actggagagg | aggagggggt | caccagcagc | 240 |
| tgcttgggat | tccagacct | gtcctgggtc | cagagaacaa | ggatgggggt | ggtaggggtgc | 300 |
| actaggtgtg | gacagagagc | tagtgaaaca | agaccgtgac | aagtcaccgg | ccagctcagc | 360 |
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<223> Genbank Accession No. M57263

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<213> *Rattus norvegicus*

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M98820

<400> 1430

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<211> 419

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. R46985

<220>

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<210> 1432

<211> 2190

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. S46785

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<211> 601
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. S56936

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<210> 1434
 <211> 603
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. S56937

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<210> 1435
 <211> 195
 <212> DNA
 <213> Rattus norvegicus

<220>
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<210> 1436
 <211> 746
 <212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. S71021

<400> 1436

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<210> 1437

<211> 1052

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. S72505

<400> 1437

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<210> 1438

<211> 1129

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. S72506

<400> 1438

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<211> 1747

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. S76054

<400> 1439

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 <212> DNA
 <213> Rattus norvegicus

<220>
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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U01914

<400> 1443

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| gacatgttgt | ccaaggaagg | aggcaggggt | gggatcagca | gcggtgggga | gggcatgcag | 360 |
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| cctgagcata | ctccctaccg | ccccagctac | agttacgatt | atgactttga | cttgggaaact | 480 |
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<213> Rattus norvegicus

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<213> *Rattus norvegicus*

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<223> Genbank Accession No. U07201

<400> 1448

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<213> Rattus norvegicus

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<400> 1449

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<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U20796

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<210> 1469
<211> 2196
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. U63923

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2196

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<210> 1470
<211> 339

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<212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. U64705

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<210> 1471
 <211> 3718
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. U67138

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<210> 1472

<211> 1765

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U68168

<400> 1472

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<210> 1473
<211> 1051
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. U72632

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<220>
<221> unsure
<222> (1)..(1051)
<223> n = a or c or g or t

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<210> 1474
<211> 1428
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. U73174

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<400> 1474
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ggctacgcaa catttcgaga tgggtcccccag cccacagcgg aagtcaacgg gaagaagttc 420
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<210> 1475

<211> 178

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U75404

<400> 1475

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<210> 1476

<211> 187

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U75405

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<221> unsure

<222> (1) .. (178)

<223> n = a or c or g or t

<400> 1476

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<210> 1477

<211> 3348

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U75916

<220>
 <221> unsure
 <222> (1) .. (3339)
 <223> n = a or c or g or t

<400> 1477

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| catctctgaa | tgacagcgac | tcggaagtgg | aggatatctc | ggaaatcgag | tccaaccgat | 120 |
| ctttttctcc | agaggagagg | cgccagcagt | attctgatca | ggagtatcat | tcctccactg | 180 |
| agaagctgaa | ggagaggcca | agctcaagag | aggagacctc | aggcagaatg | tccaggatgg | 240 |
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| ccgggggtcaa | gaagaacatt | cgcaagagcc | gggaagacct | ggcagctgct | gtgtcggtta | 1020 |
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<210> 1478

<211> 2176

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. U77038

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U77931

<400> 1479

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<213> *Rattus norvegicus*

<220>

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<211> 3622

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U88036

<400> 1481

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<213> Rattus norvegicus

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<211> 1574

<212> DNA

<213> Rattus norvegicus

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<210> 1485

<211> 735

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. X02904

<400> 1485

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<210> 1486

<211> 1592

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. X03369

<400> 1486

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<210> 1487

<211> 927

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X05566

<400> 1487

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<210> 1488

<211> 696

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X06423

<400> 1488

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<210> 1489

<211> 1495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X12459

<400> 1489

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<210> 1490

<211> 1422

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X13016

<400> 1490

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<210> 1491

<211> 1627

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. X13058

<400> 1491

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<210> 1492

<211> 3037

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. X13722

<400> 1492

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<210> 1493

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X14181

<400> 1493

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<210> 1494

<211> 3105

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X17053

<400> 1494

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| accactctaa | agttccttgag | tctctgctca | gaaccaaagg | tcaaaggaag | tgctggggta | 1920 |
| ccaggactca | agggccgtga | gaaggcagcc | tcagtaaggt | ctgtcctcca | accagtgct | 1980 |
| gtgtgactca | tgactgttgt | tacaaccgtc | tggagaaacg | tggatgtggc | acaaagtttc | 2040 |
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<210> 1496

<211> 2376

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. X51615

<400> 1496

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| ctccaccagg | atccgcgggg | accagctcgg | gatcagccgg | cgacccactt | ctgaccaacc | 120 |
| caggagcggc | ccgataccca | ctcccgacca | accgcgacc | gacccaggga | cccaactcgg | 180 |
| acctgtctct | tacaggggac | agcgctcgc | cgcttccgc | cgcccagcgc | ccgcacgctc | 240 |
| ctcgggacac | agtgccaaacc | atccagagga | caagatggat | tggggcacac | tacagagcat | 300 |
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| catcttccgc | atcatgatcc | tcgtggtggc | cgcgaaggag | gtgtggggag | atgagcaagc | 420 |
| cgattttgtt | tgcaaacctc | tccagcctgg | ctgtaagaat | gtgtgctacg | accactactt | 480 |
| ccccatctct | cacatccggc | tctgggctct | gcagctgatc | atgggtgtcca | cgccggccct | 540 |
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<210> 1497

<211> 664

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X53504

<400> 1497

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<210> 1498

<211> 2812

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. X55153

<400> 1498

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<211> 2234

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. X55298

<400> 1499

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<211> 2674

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. X57523

<220>

<221> unsure

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<223> n = a or c or g or t

<400> 1500

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<213> Rattus norvegicus

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 <213> *Rattus norvegicus*

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| gtaattttctg | gattttatttg | gattccttgt | catgttagag | acagcgtgac | taagacccat | 5460 |
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| cttgtgaact | ttttagaaat | tccttgggtgc | tattccattg | ttctttgtac | tgtagctgaa | 9120 |
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<211> 1852

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X94769

<400> 1520

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| gagctagggtg | ccaatatgta | ccgtggcggg | gatggcccac | tgcattgtgtc | tcggggcaaa | 120 |
| accaaccacc | cactccacca | ggccttcctg | caggcagcac | gtcaggctgg | ctacccttc | 180 |
| actgaagaca | tgaatggctt | ccaacaggag | ggcttcggct | ggatggacat | gaccatccac | 240 |
| caaggggaagc | gctggagcac | ggccagtgcc | tacttgcgcc | cagcgctgag | ccgccccaac | 300 |
| ctcagggccg | aggtccagac | acttgtaagc | agagtgtgtg | ttgagggcac | gcgagcagtg | 360 |
| ggcgtggagt | acatcaagga | cggccagagc | cacaaggctt | acgtcagcag | ggaggtgatc | 420 |
| ctgagcgggg | gcgccatcaa | ctctccacag | ctgctcatgc | tctctggtgt | tgggaatgca | 480 |
| gatgacctca | agaaactggg | catccctgtg | gtgtgccatc | tgcccggagt | tggtcagaac | 540 |
| ctgcaggacc | acctggagat | ctacattcag | catgcttgca | cacagcccat | caccctccac | 600 |
| tctgcccaga | agcctctgcg | gaaggtctgc | atcggcctgg | agtggctctg | gaggttcaca | 660 |
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| cctaccagc | aggaggccta | ccaggtacat | gtgggaacca | tgagggccac | aagtgtgggc | 840 |
| tggctgaaac | tgagaagcac | caaccctcag | gaccacccaa | tgatcaatcc | caactacctg | 900 |
| tcaacagaaa | ccgatgtcga | ggacttcctg | cagtgtgtga | agctgacacg | ggaaattttt | 960 |
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<211> 1780

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X97772

<400> 1521

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| ctctagcaat | ggccttcgca | aatctgcgca | aaatactcat | cagtgatagc | ctcgaccct | 120 |
| gctgccggaa | gatcctgcaa | gatggagggc | tgtaggtgg | ggagaagcag | aacttgagca | 180 |
| aggaggagct | gatagccgaa | ctccaggact | gtgaaggcct | tatcgtccgg | tcagctacta | 240 |

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<211> 1632

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<213> Rattus norvegicus

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<223> Genbank Accession No. X98517

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<213> *Rattus norvegicus*

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<211> 1632

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. Y15068

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<211> 1366

<212> DNA

<213> Rattus norvegicus

<220>

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<210> 1528

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<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. Z48225

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<213> Rattus norvegicus

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<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. NM_012488

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 <213> Rattus norvegicus

<220>
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<210> 1542

<211> 1954

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012545

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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_012551

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 <213> Rattus norvegicus

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 <212> DNA
 <213> Rattus norvegicus

<220>
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<220>

<223> Genbank Accession No. NM_012576

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<400> 1546

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| tgaccacact | caacatgtta | ggtgggcgtc | aagtgtattg | agcagtga | tgggcaaaag | 1860 |
| cgatactagg | cttgagaaac | ttacacctcg | atgaccaa | gacctgtcta | cagtactcat | 1920 |
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| tgctctgctt | tgctcctgat | ctgattatta | atgagcagag | aatgtctcta | ccctgcatgt | 2040 |
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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012580

<400> 1547

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<210> 1548

<211> 2352

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012588

<400> 1548

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 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_012597

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<210> 1550

<211> 1761

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_012600

<400> 1550

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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_012603

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<213> *Rattus norvegicus*

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM 012693

<400> 1561

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<210> 1562

<211> 1936

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_012699

<400> 1562

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<400> 1563

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<211> 2583

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012725

<400> 1564

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<213> Rattus norvegicus

<220>

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<400> 1566

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<212> DNA

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<223> Genbank Accession No. NM_012749

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<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_012792

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 <213> *Rattus norvegicus*

<220>
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 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. NM_012796

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 <213> Rattus norvegicus

<220>
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 <211> 4918
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_012833

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<212> DNA

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<220>

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<213> Rattus norvegicus

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<213> Rattus norvegicus

<220>
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<210> 1583

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<212> DNA

<213> *Rattus norvegicus*

<220>

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<400> 1583

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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<210> 1591
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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_012977

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012999

<400> 1593

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| cgattatgac | ccatcaccca | gatatgatgc | cagcaacgag | aacaaacatg | gtactcgctg | 720 |
| tgcggggagaa | gtcgtgtgct | cagccaacaa | ctcctaactgc | atcgtgggca | tagcatataa | 780 |
| tgcaaagata | ggaggcatcc | ggatgctgga | cggtgacgtg | accgacgtgg | ttgaggccaa | 840 |
| gtctctgggc | atcagaccca | actacattga | catttacagc | gctagtgggg | ggccagatga | 900 |
| tgatgggaag | accgtggatg | ggcccggccg | tctggctaaa | caggcttttcg | agtatggcat | 960 |
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| atcgcaggtc | cgcaacccag | agaaacaagg | aaagttgaaa | gaatggagcc | tcattttata | 1860 |
| tggcactgca | gagcacccat | accgcacctt | cagctcccac | cagtctcgct | cacggatgct | 1920 |
| ggagctttca | gtcccggaac | aggagcctct | caaggctgag | ggaccaccac | cgcaggcaga | 1980 |
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 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_013027

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<211> 1689
<212> DNA
<213> Rattus norvegicus

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<220>
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<210> 1597
<211> 2415
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. NM_013059

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<210> 1598

<211> 1519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013078

<400> 1598

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<210> 1599

<211> 2153

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013082

<400> 1599

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| actactgaat | aaatcacatg | gcctaataatt | gaaaatgtca | ctgttataaa | tttgtacatt | 2100 |
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<210> 1600

<211> 607

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013086

<400> 1600

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| aggatgagga | gactgacctt | gccccaaagtc | acatggctgc | tgccacaggt | gacatgccaa | 180 |
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<210> 1601

<211> 2130

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013091

<400> 1601

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| ggtctcccca | tcgtgccttg | cctgctgctg | tcactgggtgc | tcctggctct | gctgatgggg | 300 |
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| aatttgtgtc | cccagggaaa | gtatgcccat | ccaaagaata | attccatctg | ctgcaccaag | 420 |
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<210> 1604

<211> 6822

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_013119

<400> 1604

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<213> Rattus norvegicus

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<210> 1611

<211> 1911

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013185

<400> 1611

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<210> 1612

<211> 2389

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013198

<400> 1612

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<210> 1613

<211> 2826

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013200

<400> 1613

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<210> 1614

<211> 1523

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013214

<400> 1614

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<210> 1615

<211> 1272

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013215

<400> 1615

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_016995

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_016999

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<210> 1625

<211> 1843

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017040

<400> 1625

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<210> 1626

<211> 1663

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017047

<400> 1626

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<210> 1627
 <211> 1492
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_017051

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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_017060

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<210> 1629

<211> 2793

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017073

<400> 1629

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<210> 1630

<211> 1743

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017074

<400> 1630

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<210> 1631

<211> 1715

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017075

<400> 1631

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<210> 1632

<211> 2171

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017076

<400> 1632

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<210> 1633

<211> 988

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017084

<400> 1633

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<210> 1634

<211> 693

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017096

<400> 1634

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ctggaagcag agtcaaagaa gccactggaa gccttcactg tgtgtctcta tgcccacgct 180
gatgtgagcc gaagcttcag catcttctct tacgctacca agacgagctt taacgagatt 240

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<210> 1635

<211> 838

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017126

<400> 1635

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<210> 1636

<211> 2540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017127

<400> 1636

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ccgcttgggc tgctgctgag ctgcgggtgg agcgtgccc cgacgcccgg cgtagggcag 360
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gcgtgccgc cgccaccacc gccgcccctg ccgctgccc cgccgccatc accgccccta 480
gcggacgaac aaccgagcc ccggacgcgg cgcagggcct acctgtgggt caaggaattc 540
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<210> 1637

<211> 1039

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017147

<400> 1637

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<210> 1638

<211> 801

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. NM_017160

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<210> 1639
<211> 1679
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. NM_017177

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<210> 1640

<211> 1386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017181

<400> 1640

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<210> 1641

<211> 1072

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017187

<400> 1641

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| | | | | | | |
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| gattttaaagc | ttttgatgtt | gaatgtttct | aaatatttaa | tggtttcttt | aatttcttat | 960 |
| gatagcaaaa | aaaaaaactt | cataggaatt | tctattacca | gtaaaagaat | ttttttttta | 1020 |
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<210> 1642

<211> 1290

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017189

<400> 1642

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| cagaaaaatcc | acgttgggga | ggacagcctc | cttccaggcc | ctttccacag | cgctctgct | 240 |
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| gtgtggtttc | atcccaaagc | atgcagctgc | aaaaggagtt | ctggaccctg | aaagaaacct | 360 |
| tgagcaactt | ctccaccacc | accctgatgg | agttcaaggc | tctggactcc | cacggaggta | 420 |
| gcaggaatga | caacttgact | tcttgggaaa | ccatactgga | gaaaaagcag | aaggacataa | 480 |
| aagcagatca | ctccacgctg | ctcttccacc | tgaagcactt | ccccctggat | ctgcgaacct | 540 |
| tgacctgtca | gctggcgctt | ttcctgagca | acggcacaga | atgctgcccc | gttaactggg | 600 |
| tggagtttgg | tggaagctgc | tactggtttt | ctcgggatgg | gctcacctgg | gctgaggctg | 660 |
| accagtactg | ccaaatggag | aatgcccatc | tgctggtcat | caactccagg | gaggagcagg | 720 |
| aattcgttgt | aaagcacagg | ggcgcgtttc | acatttggat | aggtctcacc | gacaaggatg | 780 |
| gctcctggaa | atgggtggat | gggacggaat | atagaagtaa | cttcaagaat | tggtctttca | 840 |
| ctcagccaga | taactggcag | ggccatgaag | aggggggaag | tgaagactgt | gctgaaatcc | 900 |
| tgtcagatgg | cctctggaat | gacaacttct | gccacaggtg | gaaccgctgg | gcttgtgaaa | 960 |
| ggaaaacggga | catcacctac | tagagctctg | ctctactatg | tctttgtcaa | ccctccccc | 1020 |
| aaaccccgca | tcaactatta | ggagtctgct | ctaccatgtc | tctgccccac | cccatcaccg | 1080 |
| catcacccca | acattttcac | tggggatatt | ggagcaagaa | agagagacag | agtcccaggc | 1140 |
| atgagggggg | ttatgggaga | atggaaaagg | ggtggctcta | tggtctcata | cgtttaggaag | 1200 |
| actgagattc | caccctctct | cacaacttat | tacaattgtt | ataaatttca | acaatggagt | 1260 |
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<210> 1643

<211> 1828

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017193

<400> 1643

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| ctcaagggttc | ctcactgcaa | cgagcctggc | cagaaagaca | tcccctatca | gagctacagt | 180 |
| ggagataatg | agtagagcac | ccaaagacat | catctccctg | gctcctggat | ctccgaacct | 240 |
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| acccaacgaa | ggacagatgg | acctctgcat | cacatctggc | tgtcaagacg | gtctctgtaa | 480 |
| ggtgtttgaa | atgtctcatg | atcctggaga | cactgttctg | gtcaatgaac | cactgtattc | 540 |
| aggagccctt | tttgcaatga | aaccactggg | ctgcaatttt | attagtgtcc | ccagtgtatg | 600 |
| ctgtgggatt | attccagagg | gtctcaaaaa | agtactttcc | cagtggaaac | cagaagattc | 660 |


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<210> 1644

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<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017208

<400> 1644

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<211> 2646

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017274

<400> 1648

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 <213> Rattus norvegicus

<220>
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 <211> 1121
 <212> DNA
 <213> Rattus norvegicus

<220>
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<220>
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<210> 1653
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<212> DNA
<213> Rattus norvegicus

<220>
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<210> 1654
<211> 1490
<212> DNA
<213> Rattus norvegicus

<220>
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<400> 1654

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<210> 1655

<211> 1879

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017300

<400> 1655

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<210> 1656

<211> 796

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017309

<400> 1656

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<210> 1657

<211> 2068

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017327

<400> 1657

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<210> 1658

<211> 436

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017334

<400> 1658

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<210> 1659

<211> 722

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019165

<400> 1659

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<210> 1660
 <211> 1018
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_019170

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<210> 1661
 <211> 1856
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_019184

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<210> 1662

<211> 1192

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019190

<400> 1662

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<210> 1663

<211> 2794

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019192

<400> 1663

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<210> 1667

<211> 3726

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019229

<400> 1667

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<210> 1668

<211> 1547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019237

<400> 1668

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<210> 1669

<211> 1662

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019238

<400> 1669

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<210> 1670

<211> 1736

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019242

<400> 1670

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<210> 1671

<211> 1136

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019262

<400> 1671

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cctttgactg cccaaagccc tgaccagagc cctgtagatg ttacagaatg ggtaaaataa 1080
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<210> 1672
 <211> 1940
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_019283

<400> 1672
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 ggttccccgc cagccgcccc gcgcgcagac ggggcttgat gtccagggtg tcagcgcagc 180
 tggcgactca ggtaccatga gccaggacac cgaagtggac atgaaagatg tggagctgaa 240
 cgagctggaa ccggagaagc agcctatgaa tgcagcggac ggggcggcag ccggggagaa 300
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 tatcatcggt cgggcgccac gctgccgtga gctgccggt cagagatggt ggacaaagg 540
 cgccctctac cgcacggcg accttcaggc cttcgtaggc ccggaagcga gaggcatagc 600
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 cccaattcac agaaccaga aggatgaagt caatgaaacc gacttgaaac agattgatcc 720
 cgatttaggc tcccaggaag attttaaga ccttctacaa agtgccaaga aaaagagcat 780
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<210> 1673
 <211> 1430
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_019289

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 ctgaaggggc gcacgtggaa gccacgctg gtcacacctt ggattaatcg agctgcccgc 300
 tgcgtgcgct gggcccccac tgagaacaag ttcgccgtgg gcagtggtc ccgtgtcatt 360

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<210> 1674

<211> 1259

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019290

<400> 1674

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cagttgagag gtttgctgag aaattgactc aaatacttca agagaaatac aaaaatcact 180
ggtatccaga aaaaccctca aaaggacaag cctacagatg cattcgtgtc aataagtttc 240
agagagttga tcccagcgtc ctgaaagcct gtgaggacag ctgcatcctg tacagtgacc 300
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cctcctcctc agatgaagac acaagcaagg aagtagaagt gaaaccgagt gcagtggcta 540
caacgccaa gcccgtgtac cagatttcag aactgatatt cccacctctt ccaatgtggc 600
accctttgcc cagaaaaaag ccaggaatgt accgaggggg tggccatcag agtcactacc 660
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tgtaagttat ttatacagaa ggacatttat tttatgtcac atagaagaat tgtgtgaaat 1200
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<210> 1675

<211> 1459

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019291

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| aggagtcccc | cattgccaat | ggagaccgac | agtccccctgt | ggacattgac | accgggactg | 120 | |
| cccagcatga | cccttcacct | cagcctctgc | tcatatgtta | cgataaggtt | gcttccaaga | 180 | |
| gcattgtcaa | caatggccat | tccttcaacg | ttgagtttga | tgactcccag | gactttgcag | 240 | |
| tgctgaaaga | gggacccctc | agtggctcct | acagattgat | ccagtttcac | tttcaactggg | 300 | |
| gctcatctga | tggccagggc | tctgagcaca | ccgtgaacaa | aaaaaaatat | gctgcagagc | 360 | |
| ttcacttggg | tcaactggaac | accaaatatg | gggatttttg | aaaagctgtg | cagcaccacg | 420 | |
| atggactggc | tgttttgggt | atttttttga | agattggacc | tgccctcaca | ggccttcaga | 480 | |
| aaatcaactga | agcactgcat | tccattaaaa | caaaggggaa | acgtgcagcc | tttgctaact | 540 | |
| ttgatccctg | ctcccttctt | cctggaaact | tggactactg | gacatatcct | ggctctctga | 600 | |
| ccactccgcc | cctgctggaa | tgtgtgacct | ggatagtgtc | caaggaacct | attactgtca | 660 | |
| cgagtgcaga | gatgtctcat | tccgtaaac | tgaacttcaa | ttcggagggg | gaggctgaag | 720 | |
| aactgatggg | ggacaactgg | cgtccagctc | agccgctgaa | gaacagaaag | atcaaggcgt | 780 | |
| cctttaaata | aaatgacctt | gcagctgggg | tccaaaaagc | acaagtgtgg | ctgcctctct | 840 | |
| gtagctaagc | acagttccgc | cttggtgatt | cagatcccga | ctttgcatct | gatattgtag | 900 | |
| gccttttttac | ctctcaccca | ttgtgcttac | taataaaatg | tgaaaaggaa | gaccacaggtg | 960 | |
| tctcatgtgg | tggtagcatg | gtggcaggct | gggtggttgac | ttagggcac | ctttctcagc | 1020 | |
| cacaacaatg | caatgcaaag | aacagatatg | gcctcttgct | tctccacagc | catagaataa | 1080 | |
| tgagtactca | ggcctgttta | ttaaaatgct | atttttaaaa | ccatataagg | tagaatgatt | 1140 | |
| gtttacaaat | ccacatcatg | agacaaaactg | aggcaattta | ggcaaatcag | gtaaaacagt | 1200 | |
| catagtttta | tggttattaa | ttagatgaat | gttcaactatt | ccaagatcct | atattaaaga | 1260 | |
| aaaactttta | aaaagcttat | atattttag | caaagttatt | cttaaatatg | aattatgttg | 1320 | |
| taacttagtg | acttttgatt | tctagaggtg | taaatgaaga | tgtaaaaaat | gatatagtgtg | 1380 | |
| tgatacagag | tatatattccc | ttcagataac | ttaccataac | ctaattggata | atgtatttta | 1440 | |
| gatatattct | ctaataaaaa | | | | | 1455 | |

<210> 1676

<211> 988

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. NM 019292

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| aacactgaga | gaaagaagag | acgcagtcag | atgaaaccgc | agtgcctttt | gacatgatct | 120 | |
| aaccagaag | caggagctgt | ccagcgctga | gagacaggaa | aggccatggc | taaggagtgg | 180 | |
| ggttacggca | gccacaatgg | ccctgagcac | tggcatgaac | tttatccaat | tgccaaaggg | 240 | |
| gacaaccagt | caccattga | actgcatact | aaagacatca | ggcatgatcc | ttctctgcag | 300 | |
| ccttggtcag | tatcttatga | tcttggtctt | gctaagacca | tctgaacaa | tgggaagacc | 360 | |
| tgagagttg | tgtttgatga | taccttcgat | aggtccatgc | tgagaggtgg | gcctctctct | 420 | |
| ggaccctacc | gacttcgccca | gttccatctt | cactggggct | cctcggatga | ccatggctct | 480 | |
| gagcacacag | tggtatggagt | gaagtatgct | gctgagcttc | acctggttca | ctggaacccg | 540 | |
| aagtataaca | cttcggagga | ggctctgaag | cagcccgatg | ggattgctgt | ggttggcatt | 600 | |
| tttctgaaga | taggacggga | gaaaggcgag | ttccagattc | tccttgatgc | cctggacaaa | 660 | |
| attaagacta | agggcaagga | ggctcctttt | aatcacttcg | acctatcgtg | cctgttcctt | 720 | |
| gcttgccggg | actattggac | ctaccatggc | tccttcacca | cgccaccctg | cgaggagtgc | 780 | |
| attgtgtggc | tgctactgaa | agagcccata | acagtgaact | cagaccagat | ggccaacgtg | 840 | |
| cgcagcctgt | tcgcactgtg | agagaatgag | cccccggtgc | ctctggtggg | gaattggcgc | 900 | |
| ctctctcagc | cgatcaaggg | caggggtgtg | agggcctcct | tcaagtaagg | ctctggacgt | 960 | |
| gcctctcttcg | gaaaggaatt | ccagcccg | | | | 988 | |

<210> 1677

<211> 1201

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019293

<400> 1677

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cattcctacg cagagaaaca cagcaactgt gcccggcacc ctctctggac tggcccagtg 180
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gatgaatggg gctctgagca catggtggac ggccatgcct acccggtga gctccatttg 480
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<210> 1678

<211> 1768

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019303

<220>

<221> unsure

<222> (1)..(1759)

<223> n = a or c or g or t

<400> 1678

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<210> 1679

<211> 1575

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019354

<400> 1679

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<210> 1680

<211> 1377

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019356

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<211> 1932
<212> DNA
<213> Rattus norvegicus
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<220>
<223> Genbank Accession No. NM_019359
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<210> 1682

<211> 1395

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019905

<400> 1682

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<211> 546

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_020082

<220>

<221> unsure

<222> (1)..(546)

<223> n = a or c or g or t

0991800-0340

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<210> 1684
<211> 4540
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. NM_021266

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<210> 1685

<211> 1574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_021577

<400> 1685

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<210> 1686

<211> 1733

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_021593

<400> 1686

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<210> 1687
 <211> 2106
 <212> DNA
 <213> *Rattus norvegicus*

<220>
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 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. NM_021750

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_021754

<400> 1689

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_021757

<400> 1690

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_021836

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<212> DNA

<213> Rattus norvegicus

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<213> Rattus norvegicus

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<210> 1694

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022220

<400> 1694

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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022294

<400> 1697

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_022287

<400> 1698

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<213> *Rattus norvegicus*

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<211> 651

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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022392

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<211> 1243

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022509

<400> 1703

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g c g c g g g c t c   t g a g c a g g a a   g a c a c c g t g c   t g t t c c g g c g   t g g c a c c g g c   c a g a g t g a t g   120
a t t c t g a c a t   t t g g g a t g a t   a c a g c a t t g a   t a a a g c t t a   c g a t a a a g c c   g t g g c c t c c t   180
t t a a g c a t g c   t c t a a a g a a c   g g t g a c a t g t   g t g a a a c t t c   a g a t a a g c c a   a a a g g c a c a g   240
c t a g a a g a a a   a c c t g c t a a g   a a g a a t a a a a   a c c a a a a g a a   g a a t g c c a c a   g c t c c a t t g a   300
a a c a g t g g a a   a g c t g g t g a c   a a a t g c t c t g   c c g t t t g g t c   g g a a g a t g g c   t g c g t t t a c c   360
c a g c t a c c a t   c a c g t c a g t t   g a c c t t a a g a   g a g a a a c c t g   t g t c g t g g t t   t a t a c t g g a t   420
a t g g a a a c a a   a g a g g a g c a a   a a c c t a t c t g   a t c t g c t t t c   c c c g a c c t g t   g a a g t a g c t a   480
a c a a t a c a g a   a c a g a a c a c t   c a g g a g a a t g   a a a g c c a a g t   t t c c a c a g a c   g a c a g t g a a c   540
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c g t t t c t c c c   t c c a c c t c c c   c c g g t g c c c g   g g c g g g g a t t   a g g a c c a g g a   a a g c c a g g t c   660
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t g c c t c c g t t   c c t t c a g g a   c c a c c a a t a a   t t c c t c c a c c   c c c t c c c a t a   t c t c c c g a c t   780
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a c a c t g g t t a   c t a t a t g g g t   t t c a g a c a a a   a t a a a a a g g a   g g g a a a g a a g   t g c t c a c a t a   900
c a a a t t a a g a   a g t t c a g c t c   t c t c c c a a g g   a g a t g g t t t g   t t g g t g t c c c   t g g t c g a t a a   960
g a a c a g a a g t   c t c c t c g t c a   c c t t t g t g g a   c t c t t g g c t a   a g t g g t g t c a   t c a t c a g g g t   1020
c t c c c t g t c c   c g g g a g t c c a   t c c t g a g t c a   g c a g c a g g g c   a t g c a t a g a g   c a g c a g t t g g   1080
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g a c t g a g c a c   a a a c g g a c a a   t t g c a a t t t t   c t t a g a a t g t   c a a g a t t t g t   a t t a a t g c c t   1200
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<210> 1704

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022542

<400> 1704

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t a c c c g g c a g   c a g c g c g g c g   a c a c t c c g t g   c a t c g t a t g c   c c c t g c g c c c   c t g c c g c g g c   120
a g c c g g a g c g   c c c c g a g a g a   a c g c t c c a c c   g c g g g g t c c a   g g t g c a g t t a   g c g t g c c t a g   180
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g g c g t c g c g   g g c c c t c c t   g c t g c c c g c g   c c c g g c g a g c   t c a t g g c g g c   c a t c c g c a a g   300
a a g c t g g t g g   t g g t g g g c g a   c g g c g c g t g c   g g c a a g a c g t   g c c t g c t g a t   c g t g t t c a g t   360
a a g g a c g a g t   t c c c g a a g t   g t a c g t g c c c   a c c g t g t c g   a g a a c t a t g t   g g c g g a c a t c   420
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g a c a g c c c g g   a c t c t c t c g a   g a a c a t c c c c   g a g a a g t g g g   t g c c c g a g g t   a a a g c a c t t c   600
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<210> 1706

<211> 1999

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_022584

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<211> 2098

<212> DNA

<213> Rattus norvegicus

<220>

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<213> Rattus norvegicus

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<400> 1708

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 <212> DNA
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<220>
 <223> Genbank Accession No. NM_022704

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 <213> Rattus norvegicus

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| atgtctgtag | tctttatcac | ggatggcagt | gtcacgagga | gaggggtcca | agctgactac | 2160 |
| tactccactc | ctatcaggac | cagcacaact | cctccaacga | cgttcccgat | cattactgga | 2220 |
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<211> 3239

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM 022866

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| ctcttcgccc | tgccgccc | ggaaggccgt | tgcctgtatg | tcattctgct | catggcgtg | 180 |
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<211> 861

<212> DNA

<213> Rattus norvegicus

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<400> 1714

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<210> 1716

<211> 1992

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_022936

<400> 1716

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<211> 715

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022949

<400> 1717

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<211> 1495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022960

<400> 1718

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<210> 1719

<211> 1408

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_024125

<400> 1719

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<210> 1720

<211> 711

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_024127

<400> 1720

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<210> 1721

<211> 2472

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_024132

<400> 1721

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<211> 806

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_024134

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<210> 1723

<211> 1213

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_024148

<400> 1723

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 <211> 995
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_024152

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 <211> 3170
 <212> DNA
 <213> Rattus norvegicus

<220>
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<211> 2640

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_024163

<400> 1726

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<212> DNA

<213> *Rattus norvegicus*

<220>

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<400> 1727

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<213> Rattus norvegicus

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<210> 1734
 <211> 1689
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_022403

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 gctcaaaactg gtgtaaacag agccagcaaa ggaggactta tctatgggga ctacttgcag 180
 ttggagaaga ttttgaatgc acaagaactt caaagtgaat tcaaagggaa taaaatccac 240

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|------------|------|
| gacgagcacc | tctttattat | aactcaccaa | gcttatgaac | tttgggttaa | acaaattctc | 300 |
| tgggaacttg | attctgttcg | tgagattttt | caaaatggcc | atgtcaggga | tgagaggaac | 360 |
| atgtc caagg | tgatgactcg | gatgcaccgt | gtggtggtca | tcttcaagct | cctggtacag | 420 |
| cagttctcgg | ttctggaaac | aatgactgcc | ttggacttca | atgacttcag | agagtacctg | 480 |
| tctccagcat | caggcttcca | gagtcttcag | ttccggctgc | tagaaaataa | gatagggtgt | 540 |
| cttcagagct | tgagagtccc | ttacaacagg | aaacactatc | gtgataactt | tgaaggagac | 600 |
| tacaatgagc | tgctgctgaa | atcggagcag | gagcagacgc | tattgcagct | ggtggaggga | 660 |
| tggctggaac | gcacacctgg | cttagagcca | catggattca | atttctgggg | aaagtttgaa | 720 |
| aaaaatatct | tgaaggggtct | ggaagaggag | ttcctaaaga | ttcaggcgaa | aaaggactct | 780 |
| gaagaaaaag | aggaacagat | ggcagagttc | cggaagcaga | aagaggtgct | gctctgcttg | 840 |
| ttctgatgag | agcgctcatga | ctaccttctg | agtaaagggtg | aacgacgat | gtcataccgt | 900 |
| gcactccagg | gagcactgat | gatatatctt | tacagggagg | agcctcgatt | ccaggtcctt | 960 |
| ttccagttgc | tgacctcact | tatggacatt | gacacactca | tgaccaaatg | gagatataat | 1020 |
| catgtgtgca | tgggtgcacag | gatgctaggc | agcaaggctg | gcactggggg | atcctcaggc | 1080 |
| tattattatc | tgcgctcaac | tgtgagcgac | aggtacaagg | tgttcgtgga | tttatttaac | 1140 |
| ctctc atcgt | acctgggttc | ccgacactgg | ataccaaaga | tgaatccgat | cattcacaag | 1200 |
| ttcctttaca | cagctgagta | cagcgacagc | tcctacttca | gcagcgatga | atcagattga | 1260 |
| gttcttctga | acatcagtc | aggctacagg | attcccagtc | aacttttatt | ttataaattt | 1320 |
| ttacaaaatat | gtgattgggtg | taacatatct | atattttgtag | ttcagagacg | tgatgttgtg | 1380 |
| gtccaatcct | ggaaaaaatt | atgatttcgc | atatcatgat | gatgtatgat | taagcagatt | 1440 |
| aagcattatg | ataaaaaata | cttggtaaaa | tgtagcatc | atcatacata | tgatgtattc | 1500 |
| tggttataac | tcaattttacc | ctgacactta | cctccatgta | aacactttaa | gtaattagtt | 1560 |
| ccttattgct | tcatacttta | taaaagcttg | tgagcagttc | ttttatacta | tagatgcaat | 1620 |
| aaatactatt | cttctgtaca | aaattttatt | aaatgaatct | ttaatthaata | aatttagttt | 1680 |
| ttgtctgcg | | | | | | 1689 |

<210> 1735

<211> 1944

<212> DNA

<213> Rattus norvegicus

$\langle 220 \rangle$

<223> Genbank Accession No. NM_022539

<400> 1735

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| ctctctctct | ttccctctcg | ggcaacatgg | cgggcgtgga | agaggcatcg | tctttcgggg | 120 |
| gccacctgaa | tcgcgacctg | gatccagacg | acagggaaga | gggaacctcc | agcacggccg | 180 |
| aggaagccgc | caagaagaaa | agacggaaga | agaagaaggg | caaaggggct | gtgtcagcag | 240 |
| ggcaacaaga | acttgataaa | gaatcgggaa | cctcagtggg | cgaagtagca | aaacagttgg | 300 |
| agagacaagc | actggaggag | aaagagaaaag | atgatgacga | tgaagatgga | gatggtgatg | 360 |
| gtgatggtgc | agctgggaag | aagaagaaaa | agaagaagaa | gaagagagga | ccaagagttc | 420 |
| aaacagaccc | tccctcagtt | ccaatatgtg | acctgtatcc | taatggtgta | tttcccaaag | 480 |
| gacaagagtg | tgaataccca | cccacccaag | atgggcggac | agctgcttgg | agaaccacaa | 540 |
| gtgaagagaa | aaaggcgcta | gaccaggcta | gtgaggagat | ttggaacgac | ttccgagaag | 600 |
| ctgccgaagc | acaccggcaa | gttaggaaat | acgtctagag | ctggtacaag | cctgggtaga | 660 |
| caatgataga | aatatgtgag | aagttggaag | actgttcccg | aaagctcata | aaggagaatg | 720 |
| ggttaaattgc | aggcctggcc | tttcccaactg | ggtgttctct | caacaactgt | gctgcacatt | 780 |
| acactcccaa | tgctggtgac | acgacagtct | tacagtacga | cgacatctgt | aagatcgact | 840 |
| ttggaacgca | tataagtggg | agaataattg | attgtgcttt | tactgttact | tttaatccca | 900 |
| aatatgacat | attattaaaa | gctgtaaaag | atgccaccaa | tactggaata | aagtgtgcgg | 960 |
| ggattgacgt | ccgtctctgt | gatgtcggcg | aggccattca | agaagttag | gagtcctatg | 1020 |
| aagtggaaat | agatgggaag | acctaccaag | tgaaacccat | acgtaactta | aatggacatt | 1080 |
| caattggggc | atatagaatt | catgctggaa | aaacagtgcc | cattgtgaaa | ggaggggaag | 1140 |
| ctacaaggat | ggaggaagga | gaggtgtatg | ccattgagac | ctttggtagc | acaggggaag | 1200 |
| gcgtggttca | tgacgatatg | gaatgttcac | actacatgaa | aaattttgat | gtggggacag | 1260 |
| tgccaataag | gcttccaaga | acaaaacact | tgttgaatgt | catcaatgaa | aacttttggt | 1320 |
| cccttgccct | ctgccgaagg | tggctggatc | gcttgggaga | aagtaaatat | ttaatggctc | 1380 |

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|------|
| tgaagaacct | gtgtgacttg | ggcattgtag | atccatatcc | accactctgt | gacattaaag | 1440 |
| gatcatcac | agcacagttt | gaacatacca | tactctgcgc | ccaacctgta | aagaagttgt | 1500 |
| cagcagagga | gatgactatt | aaaacttagt | ccaaagccaa | ctcaacgtct | ttattttcta | 1560 |
| agctttgttg | gaacacatta | taccacaagt | aatttgcaac | atgtctgttt | taacagtggg | 1620 |
| cctgtgtaat | gccgttatcc | atgtttaaag | gagtttgatc | aaagccaaac | tgtctacatg | 1680 |
| taattaacca | aggaaaaggc | tttcaagact | ttactgttaa | ctgtttctcc | cgtctaggaa | 1740 |
| atgctgtact | gctcactagt | taggaattac | ttaaactgtt | tgttttgaag | acctaagaga | 1800 |
| tgctttttgg | atattttatat | tgccatattc | ttacttggat | gcttttgaatg | actacatata | 1860 |
| tccagttctg | cacctatgcc | ctctggtatt | gctttttaac | cttcctggaa | tccattttct | 1920 |
| aaaaaataaa | gacattttca | gata | | | | 1944 |

<210> 1736

<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892041

<400> 1736

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| acaatgtcac | tgctgtctt | tcataaggcg | agttcacatt | cacagatcac | tagagagcag | 120 |
| acctggaac | tccaggaagt | acatgtgctg | tcttcacac | attcttgga | gcccactttg | 180 |
| atagaaactc | accatggatt | tcctatagag | aactctcccc | cccccccccac | ctcccctgct | 240 |
| ttattttactg | aaagtacaga | attgaaagtt | tctccccact | ttatgggttct | ccacaatggg | 300 |
| taacagaaga | ttcagtttgg | aaacctacaa | aagatgttta | tcattctagc | atggagccca | 360 |
| cactgacact | accttgctga | tcacagaccc | tgacagagacc | ctgcagtcac | caacacataa | 420 |
| ttcgttttcaa | agaaagccag | tcagcagggc | gctgtgatgg | atggagggggc | agaatgctgg | 480 |
| cgaaggcaca | gagtaaagaa | tcccagagaat | gttttggtgc | catttccatt | taaggagcca | 540 |
| gtagtatagc | gagcgacctc | cgcgacttcg | gctgtgacca | cgccacaatc | tttctacgga | 600 |
| actgca | | | | | | 606 |

<210> 1737

<211> 541

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022515

<400> 1737

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| acccgggaca | cgggcggcgc | tacgccagga | ccgatgggaa | ggttttccag | tttcttaatg | 120 |
| ccaaatgtga | gtccgcattc | ctttccaaaa | ggaaccctcg | gcaaattaac | tggaactgtcc | 180 |
| tctacagaag | aaaacacaag | aaaggacagt | cggaagaaat | tcaaaagaaa | agaaccgcgc | 240 |
| gtgcagtcaa | gttccagcgg | gccatcacag | gcgcttctct | ggctgatata | atggccaaga | 300 |
| ggaatcagaa | accagaagtt | aggaaagctc | agcgagaaca | ggctatcagg | gctgccaaagg | 360 |
| aagcaaaaaa | ggctaagcag | gcatcaaaaga | agacagcaat | ggctgctgcc | aaggctccca | 420 |
| caaaggcagc | ccctaataca | aagattgtga | agcctgtgaa | ggctctctgct | cccagagttg | 480 |
| gtgggaaacg | ctaatttagt | agatgagagt | ttaaaaaataa | agatttgtct | ctaaaaaaaaa | 540 |
| a | | | | | | 541 |

<210> 1738

<211> 1440

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022526

<220>

<221> unsure

<222> (1)..(1440)

<223> n = a or c or g or t

<400> 1738

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tntccccgag gccttgcgcg cgcactgctg cccacccgcg gctgccatcg cccctcagaa 180
aaccagcggc gccatgtctt cgcctccaga aggaaagcta gagaccaaag ctggacatcc 240
gcccggcgtg aaagtgcgtg ggattcggat tgtgcagaaa caccacaca ctggagatgg 300
gaaggaaaag aaagacaagg atgaccaaga atgggaaaagc accagccctc ctaaaccaac 360
agtgtacatc tctggtgtta ttgcccgggg tgacaaagac ttccccccag cagctgcaca 420
agtggcccac cagaagccac atgcctccat ggacaaacat gtttctccaa gaacgcagca 480
tatccaacag cctcgcaagt gaccaacgcc cagacccctg ccacctcagc agcagcagca 540
gcagcagcac ctgtgcccc tccaggatgc ttccccgaca aaatcaactc aaacaccttc 600
tacagagttt actaaattta gaaatctaag acaaagcaaa gtggggcctcg gttgtgtcag 660
atccccatgt ttaaaactag aagaggctca aacaccaa atttgtttcta agagtccctag 720
tcgactgtca gtaaagggtc attgaacccc ctagaagtgc caattagcag aacatggcaa 780
gtcctgagta taaggaagtc cttcgcacta tagcagtagt ttaaagtcct tacgtcgtgg 840
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ccctgttttt cagaaaagtc aaagagctag atgtagagcc ttctggagtg cctgctcttg 1020
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cacatggagc agaacacagc cccaagact gtgtgtgcag tctcttcttt ctaattacta 1260
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tcagtcatat ggaaccaa atcaggaagg accttagaga cagcaacgcc agttccctgt 1380
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<210> 1739

<211> 3564

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017321

<400> 1739

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gtggtggagc cctgcctaga atccccagtg agggcctggg ttcttgcttg caccgcctg 180
tgtgtccgt gctccgtgag ccccgctgtg agcgagacac gtgaccgtca gtaatcatga 240
agaatccatt tgcgcacctt gccgagccct tggaccctgc acagccagga aagaaattct 300
tcaacttgaa taaattggag gactcaagat atggacgctt accgttctct atcagagttc 360
tcctggaggc cgccgttcgg aactgtgacg agtttttggg gaagaagaat gacattgaga 420
atatactgaa ctggagtatc atgcagcata agagcataga agtgccgttt aagccagccc 480
gagtcatact gcaggacttt acgggcgtgc ctgctgtggg tgattttgca gcaatgcgcg 540
atgctgtgaa gaagtggga ggaaatccag agaaaataaa ccctgtctgc cccgctgacc 600
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atcaagacct ggaatttgaa aggaatagag aacgatttga attttttaag tgggggtccc 720
aggccttttg caacatgagg attattcctc ctggctcagg aattattcac caagtgaatc 780
tggagtattt ggcaagagta gtgtttgatc aggatggatg ttactacca gatagcctcg 840
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```

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| gtggtattga | agcagaagct | gtcatgctgg | gtcagccaat | cagcatggtg | cttccccagg | 960 |
| tgattggcta | caagctgatg | gggaagcctc | accctctggt | aacctccacg | gacattgtgc | 1020 |
| tcaccattac | caagcacctc | cgacaagttg | gggtcgtggg | caaattcgtg | gagtttttcg | 1080 |
| ggccaggagt | ggcccagctg | tccattgctg | accgagctac | gattgccaac | atgtgccacg | 1140 |
| agtacggcgc | gacggcagcc | ttcttcccgg | tcgacgacgt | tagcatcgcg | tacctggtgc | 1200 |
| agacaggtcg | tgaggaagac | aaagtaaagc | acattaaaag | gtatcttcag | gctgtaggca | 1260 |
| tgtttcgaga | cttcagtgac | tcctctcaag | accagactt | cactcaggtc | gtggagttag | 1320 |
| at ttgaaaac | agttgtgcct | tgctgcagtg | gacctaaaag | acctcaggac | aaagttgctg | 1380 |
| tgtctgagat | tgaaaaggac | tttgaaagct | gccttgggagc | caagcaaggga | tttaaagggtt | 1440 |
| ttcaagttgc | tccagaccat | cacaatgacc | acaagacggt | tatctataac | gacagtgaat | 1500 |
| tcactcttgc | tcatggctcc | gtggtgatcg | ccgccatcac | tagctgcaca | aacaccagca | 1560 |
| atcgcgtcgt | gatgttaggc | gcaggattgt | tagcaaagaa | agccgtagag | gctggcctga | 1620 |
| atgtgaagcc | ttacgtcaaa | accagcctgt | ctcctgggag | tggagtggtc | acctactacc | 1680 |
| ttcgagagag | tggagtcatg | ccttacctgt | cccagttagg | gtttgacgtg | gtgggctacg | 1740 |
| gctgcatgag | ctgcatacgg | aacagtgga | ccctccccga | acctgtgggt | gaggctatca | 1800 |
| cccagggaga | ccttgtggct | gttgggtac | tgtctggaaa | caggaatttt | gaaggacgag | 1860 |
| tccatcctaa | caccggggcc | aactacttag | catctcccc | actagtaata | gcatatgcaa | 1920 |
| ttgcaggcac | cgtcaggatc | gacttcgaga | aagagccttt | gggagtgaac | gcacagggcc | 1980 |
| aacaagtgtt | tctgaaggat | atctggccaa | ctcgagatga | gatccaggag | gtggagcgga | 2040 |
| agtatgtcat | ccccggcatg | ttcaaggagg | tctatcagaa | gatagagact | gtaaacaaaa | 2100 |
| gctggaatgc | cttagcagcc | ccttcagaga | agctgtatgc | gtggaacccc | aagtctactt | 2160 |
| atatcaagtc | accgccattc | tttgaaagct | tgactttaga | tctccagccc | cccaagtcta | 2220 |
| tagtgggatgc | ctatgtgcta | ctaaatctag | gagattccgt | aacaacggac | catatctctc | 2280 |
| cagcggggaa | cattgcaaga | aacagccctg | ccgctcgcta | cttgacgaac | agaggcctga | 2340 |
| cgccacgaga | tttcaactcc | tacggctccc | gccggggtaa | cgacgccatc | atggcacggg | 2400 |
| ggacatttgc | caacattcgc | ttgtgaaaca | agttttctgaa | caagcaggcc | cctcagactg | 2460 |
| tccacettcc | ttcaggagaa | accctcgatg | tgttcgatgc | cgctgagcgg | taccagcagg | 2520 |
| ctggacttcc | cctgattgtt | ctggctggga | aagagtaacg | ttcaggcagc | ttccgagact | 2580 |
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| tcgtgagggg | gctagcaaga | tgagcaagtg | ggccctgcca | ttcctggagg | ctcagcggca | 3060 |
| ggagtctcta | gttcggtgat | ttgttaatct | tttatccttt | tctgtaatcc | ggaatctaga | 3120 |
| atcatgggaa | ggtccatagt | cccaaagaga | gctaccttct | ctttaaagtc | actcatcacc | 3180 |
| ggtcattgat | ttttttcact | ctgactaatc | ttcagcagaa | ctagccagta | tctcagaagt | 3240 |
| gtctcctacc | ctttctgtta | ctctgtctgt | ctgtgctcag | tgacaccctt | ccctggagag | 3300 |
| cccattcctc | cgtgtatcac | accagtggtta | acgacatagc | ttcagactct | gtcacacttc | 3360 |
| aaattcattc | taattctgtg | gatcccttcc | ttccaagtga | gcgaagacct | tgtggcatgg | 3420 |
| ctggccgctc | caagtgtttg | attaccttcc | ttccaatcac | cgtgagttgt | cttttaccat | 3480 |
| tttcaacatt | tgttgacagg | gtttgaaagt | aaccgggggg | cgagacagga | tttctaatgt | 3540 |
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<210> 1740

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM 022944

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